



ARKEL

Ustvarjamo najboljše tehnologije

We drive the best technologies.

www.arkel.com.tr
www.ersim.si



Arkell, že od leta 1988

Ponosni smo na zaupanje v naše izdelke in tehnologijo, ki jo predstavljamo za dvigala.

V prihodnje bomo ostali najboljši partner in nudili najboljše rešitve s pomočjo mladega in dinamičnega tima, rešitev ki zagotavljajo varnost in robustnost ter odlične prodajne storitve in podporo, tako kot do sedaj

Arkell, since 1988

Is proud of having your trust and appreciation through its solutions and products presented to the lift industry.

Arkell will remain to be your best solution partner in the future based on its extensive experience, young and dynamic team, designs that combine safety and durability and efficient after-sales support, as it has been your best solution partner so far.

ZAKAJ ARKEL?

IZKUŠNJE NA PODROČJU DVIGAL: Arkel že od začetka uporablja lastno znanje in tehnične rešitve. Vedno smo osredotočeni na uspeh, tako ustvarjamo najboljše rezultate.

ZASNOVA IN IZDELAVA: Vsi Arkel produkti so razviti v hiši z našimi inženirji in izdelani v naših tovarnah.

IZBIRA NAJBOLJŠIH KOMPONENT: Uporabljamo samo najbolj kvalitetne komponente že pri zasnovi in ne sprejemamo kompromisov pri izbiri komponent med proizvodnjo.

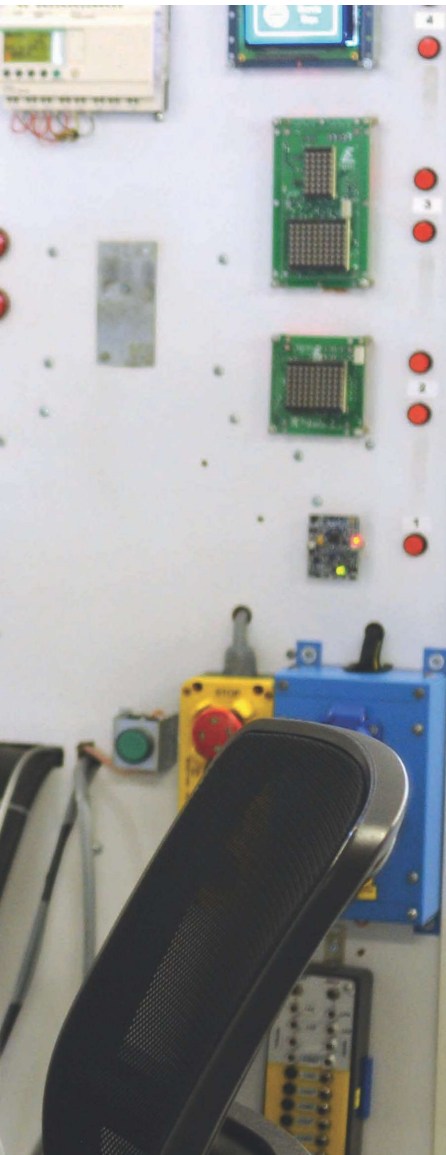


WHY ARKEL?

EXPERTISE IN LIFT SYSTEMS: Arkel has been using only its own expertise and technical know-how since its incorporation. It is always focused on success in the business to achieve excellent results.

DESIGN AND PRODUCTION: All Arkel products are designed by specialized Arkel engineers and produced at Arkel facilities.

CAREFUL SELECTION OF COMPONENTS: Arkel prefers the highest quality components starting from the design stage and never compromises on quality during production processes.



Predstavitev	3	Introduction
Zakaj Arkel?	4	Why Arkel?
Kazalo	5	Table of Contents
Zgodovina	6	History
Tovarna	8	Factory
Kategorije produktov	10	Product Categories
Monoblock krmilna enota	12	Monoblock Lift Control Unit
Integrirane krmilna enota	16	Integrated Lift Control Units
Motorji	20	Motors
VVVF frekvenčni pretvorniki	24	VVVF Speed Control Units (Inverters)
Krmilniki za dvigala	26	Lift Control Boards
Krmilne omare za dvigala	32	Lift Control Panels
Krmilniki za vrata dvigala	34	Door Control Boards
Indikatorji	38	Indicators
Internet dvigal	40	ARKEL ARLIFT Internet for Lifts
ARLINE oddaljeni dostop, alarmne naprave in intercom	44	ARKEL ARLINE Remote Monitoring, Alarm and Intercom System for Lifts
Regenerativne naprave za dvigala	46	Regenerative Lift Control Unit
Dodatne naprave	50	Auxiliary Units



ZGODOVINA

- ARKEL deluje od leta 1998. ARKEL je začel z izdelovanjem krmilkov za dvigala, krmilnih omar, sistemov za reševanje, servisnih konzol, kompletov za alarme, VVVF frekvenčnih regulatorjev, vgrajenih krmilnih omar in ostalih naprav, ki se uporabljajo na področju dvigal in je vodilno podjetje v sektorju na področju R&D in inženirskih storitev.

- Leta 2003 je ARKEL prvič izvozil svoj produkt in nato leta 2005 izdelal prvi lokalni VVVF frekvenčni regulator izdelan v Turčiji. Med povezovanjem Turčije in Evropske Unije se je za ARKEL odprla nova doba s pričetkom uporabe novih standardov EN81-1/2 in harmonizacije Arklovih produktov v skladu s sprejetimi standardi. Od leta 2006 se naši produkti prodajajo in reklamirajo v državah Evropske Unije. Arkel trenutno svoje produkte izvažajo v bližnji vzhod, Afriko, Evropo in Azijo. Manjši delež produktov se izvažajo tudi v številne druge destinacije vključno z Avstralijo.

- Leta 2013 smo trgu predstavili prvo integrirano krmilno omaro s katero smo postali eno izmed treh najboljših podjetij na svetu na tem področju. ARCODE je pridobil prestižno nagrado Red Dot award, ki ima veliko težo na področju industrijskega oblikovanja. Leta 2014 je osvojil prvo mesto v kategoriji tehnologije na tekmovanju, ki sta ga skupno organizirala Turška Fundacija za Tehnološki Razvoj in TUBITAK in je osvojil tudi tehnološko nagrado.

- Arkel nadaljuje svojo pot, kot globalno podjetje z ustanovitvijo pisarn v Vadodara (Indija) marca leta 2018, in pričetkom izdelave brezreduktorskih motorjev v različnih specifikacijah. Še naprej se bomo trudili povečati svoj delež prodaje v domačem in tujem okolju. Rast vidimo kot naraven odziv strank na področju dobave kvalitetnih in uporabniško prijaznih produktov, ki sledijo najnovejšim trendom in omogočajo inovacije in zadovoljstvo končnih kupcev.



HISTORY

- Founded in 1998; ARKEL, which started its operations by producing lift control boards, control panels, emergency rescue systems, inspection boxes, alarm sets, VVVF drives, integrated lift control units and other electronic devices required in the sector and is the leader brand in the sector in terms of R&D and engineering services.

- ARKEL exported its first product in 2003 and made a breakthrough in 2005 by designing and starting to produce the first domestic lift motor driver in Turkey. During the process of integration of Turkey with the European Union, a new horizon opened up for ARKEL upon introduction of the lifts standard EN81-1/2 in 2005 and upon harmonization of the products of ARKEL in accordance with these standards. Since 2006, the Company has been marketing its products to the European Union countries. ARKEL A.Ş. currently exports its products to the countries in the Middle East, Africa, Europe and Asia and many other destinations even in Australia.

- The Company placed its integrated lift drive into the market in 2013 and is one of the top 3 companies in the world in this field. Red Dot awards, which are significant industrial design awards, were granted to ARCODE integrated lift control unit. In 2014, the product won the first prize in the technology awards contest organized jointly by the Turkish Technologies Development Foundation and TÜBİTAK and received technology award.

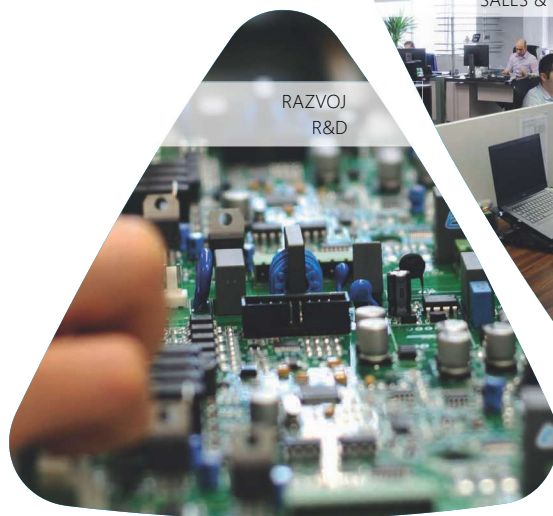
- Arkel proceeds on the way to becoming a global company after opening an office in Vadodara office in India in March 2018 and continues its operations by adding Gearless Motor to its wide range of products in the same year. The Company will maintain its activities to increase its share in the domestic and overseas markets, grow in the sector in terms of its export operations by placing top priority to customer satisfaction and enhance its user-friendly, new-trend product ranges by focusing on innovations.

USPEH PROIZVODNJE

ARKEL vedno stremi k doseganju boljših rezultatov, ki so plod sodelovanja in upoštevanja partnerjev.

S stalnim razvojem in ciljem ustvariti boljše produkte, se trudimo postati vaš edini partner na področju dvigal.

Uspeh za nas pomeni vzdrževanje in konstantno grajenje boljših odnosov in zaupanja v prihodnjem obdobju.



PRODAJA IN MARKETING
SALES & MARKETING

RAZVOJ
R&D

KVALITETA
QUALITY



VEZAVA PANELOV
PANEL WIRING



PROCES IZDELAVE SMD VEZIJ
SMD MANUFACTURING PROCESS



100% FUNKCIONALNI TEST
100% FUNCTION TEST



PROIZVODNJA
MANUFACTURE



PAKIRANJE
SAFE PACKAGING



PREDPRIRAVA KOMONENT
MATERIAL PREPARATION



PRODAJA IN MARKETING
SALES & MARKETING

PRODAJA SALES



PRODUKCIJSKO TESTIRANJE
PRE-TEST CONTROL UNIT

KONTROLA CONTROL



SESTAVLJANJE KRMILNIH OMAR
BACKPLATE ASSEMBLY UNIT



ROČNO POLAGANJE THT
THT MANUAL INSERTION LINE



WORKING FOR SUCCESS


ARKEL always strives to achieve better results based on its awareness of responsibilities as your solution partner. Arkel aims to be your unique partner with continuous goal to provide added value to the lift industry. Success for ARKEL means maintaining and improving our trust-based cooperation for many years ahead.




1  Monoblock krmilna enota
Monoblock Lift Control Unit

2  Vgrajena krmilna enota
Integrated Lift Control Units

3  Motorji
Motors

4  VVF frekvenčni pretvorniki
VVF Speed Control Units (Inverters)

5  Krmilniki za dvigala
Lift Control Boards

6  Krmilne omare za dvigala
Lift Control Panels

KATEGORIJE PRODUKTOV

PRODUCT CATEGORIES

Krmilje za vrata dvigala
Door Control Boards



Indikatorji
Displays



ARKEl ARLIFT / Lift Media Plus
ARKEl ARLIFT / Lift Media Plus



ARKEl ARLINE / oddaljeni dostop, alarmne naprave in intercom
ARKEl ARLINE / Remote Monitoring, Alarm and Intercom System for Lifts



Regenerativne naprave za dvigala
Regenerative Unit for Lifts



Dodatne naprave
Auxiliary Units





Monoblok krmilna enota Monoblock Lift Control Unit

ARCUBE združuje VVVF pretvornik, krmilnik za dvigalo, reševalno konzolo in električne komponente v eno „monoblock“ enoto.

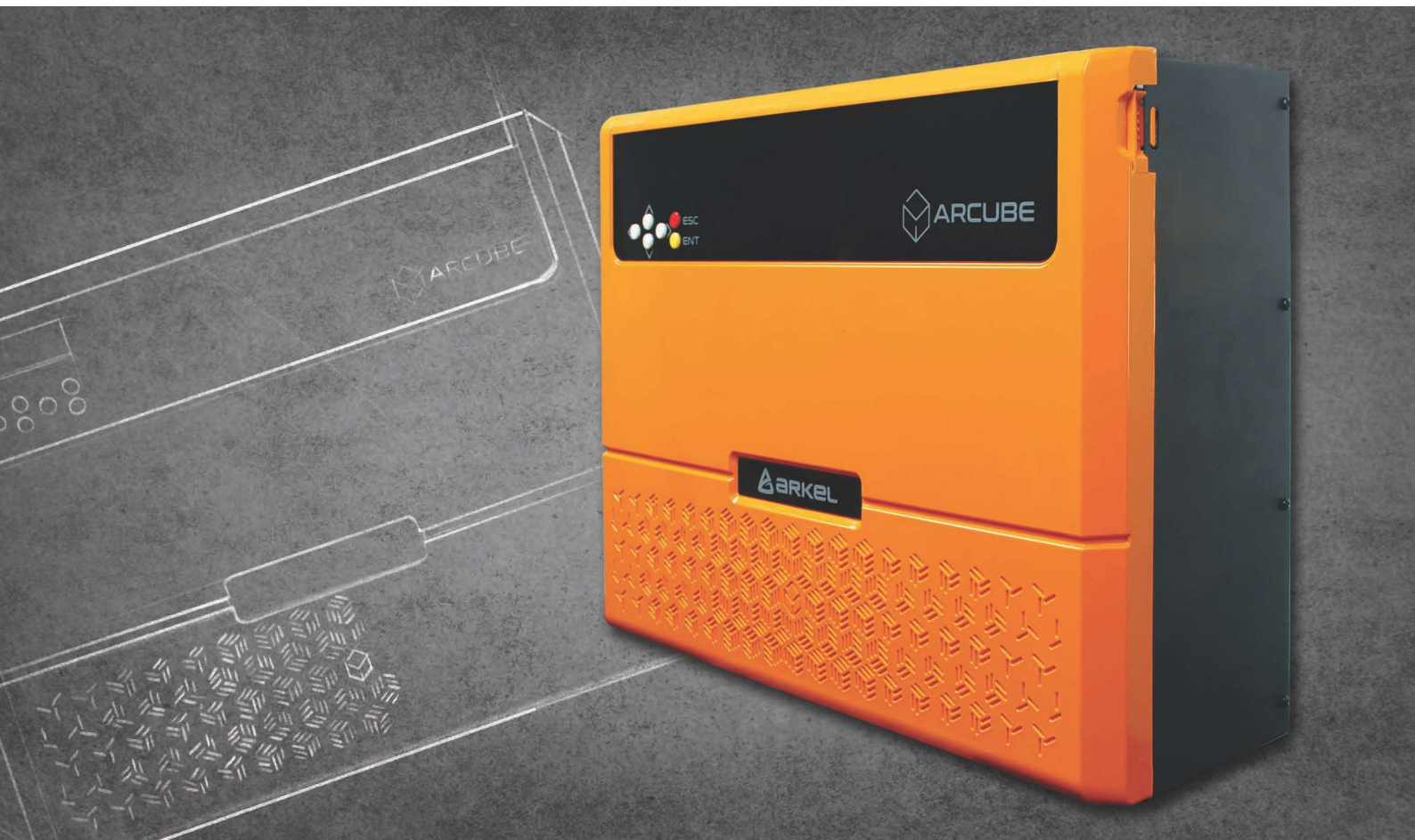
ARCUBE combines VVVF drive unit, control board, rescue function and electrical components as a single monoblock lift control unit.

ARCUBE popolnoma ustreza vašim potrebam!

- ✦ ARCUBE združuje VVVF pretvornik, krmilnik za dvigalo, reševalno konzolo in električne komponente v eno „monoblock“ enoto.
- ✦ Z brezkontaktno zasnovo in funkcijo STO
- ✦ Majhna in lahka enota za enostavno montažo
- ✦ Ustreza standardu EN81-20
- ✦ Nižja cena zaradi manjšega števila komponent
- ✦ Direktno pristajanje
- ✦ Delovanje s sinhronskimi in asinhronskimi motorji
- ✦ Delovanje z ali brez enkoderja
- ✦ Zanesljivo delovanje
- ✦ Varčevanje z energijo

ARCUBE perfectly meets your needs!

- ✦ Combines VVVF drive unit, control board, rescue function and other electrical components in a single monoblock unit
- ✦ Contactorless design with STO function
- ✦ Small, lightweight and ready to install
- ✦ Compatible with EN81-20 standards
- ✦ Decreased costs due to less travelling cable requirements
- ✦ Direct landing
- ✦ Ability to work with synchronous and asynchronous machines
- ✦ Ability to work open and close loop
- ✦ Reliable and industrialized
- ✦ Energy saving



S funkcijo direktnega pristajanja,

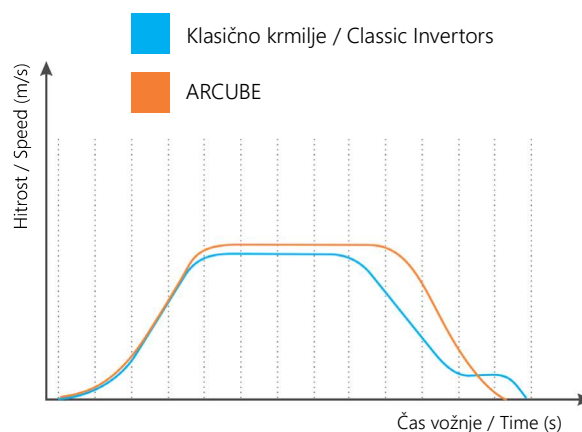
ARCUBE:

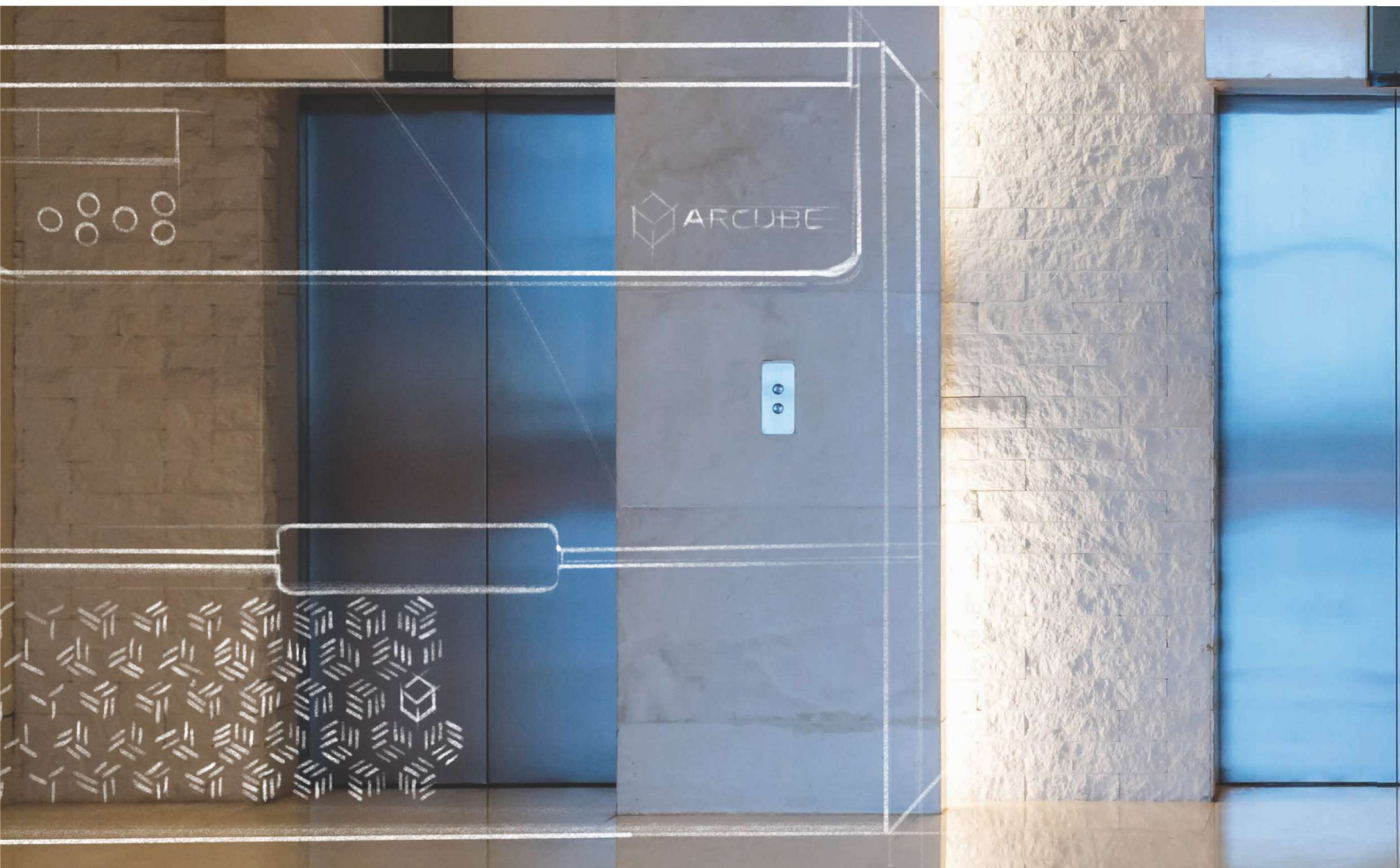
- skrajša čas potovanja brez počasne vožnje pred pristajanjem, z dinamičnim izračunavanjem krivulje,
- nudi enostaven zagon s samodejnim določanjem točke zaviranja,
- brez dodatnih nastavitev parametrov zaradi avtomatskega izračuna krivulje in maksimalne hitrosti vožnje.

With "Direct Landing" feature,

ARCUBE:

- Shortens travel time with removal of the creeping distance by dynamic calculation of the travel curve.
- Provides easy setup by automatic detection of the deceleration point.
- No additional parameter setting requirement due to automatic calculation of maximum travelling speed according to the floor distance.



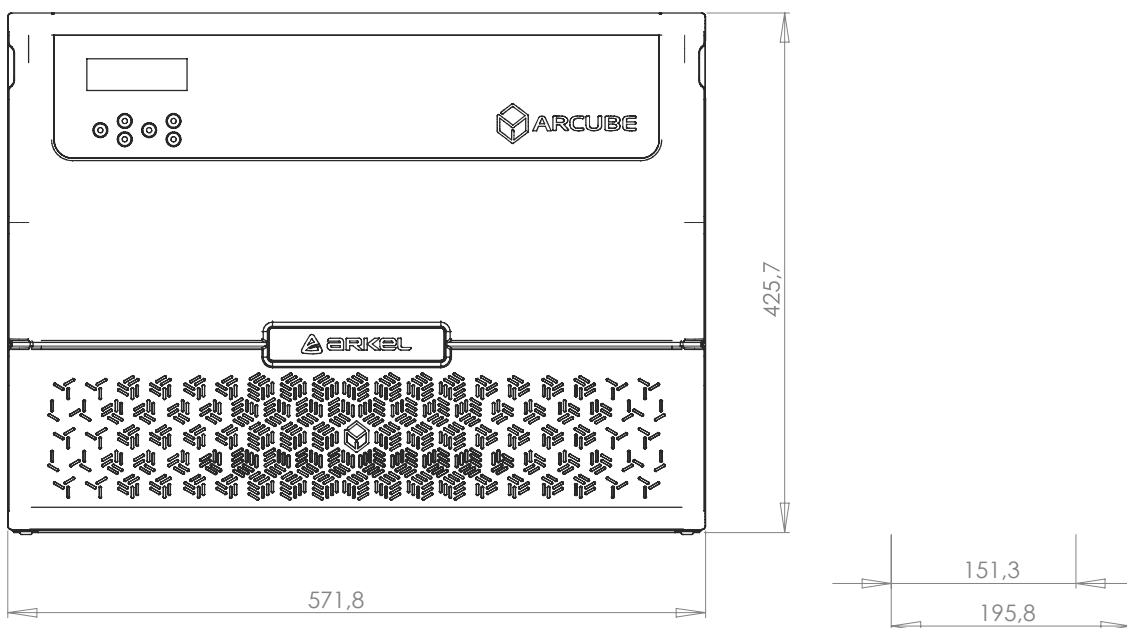


Samodejno reševanje z UPS

- Kompatibilnost z 1 faznim UPS ali 5x12V baterijskim sklopom.
- Nastavljiva moč po specifikaciji UPSa ali akumulatorjev, onemogoča okvare in poškodbe akumulatorjev zaradi prevelikega toka.
- Samodejna operacija s pomočjo zamika starta in nastavljenih parametrov reševanja.

Rescue function with Auxiliary power:

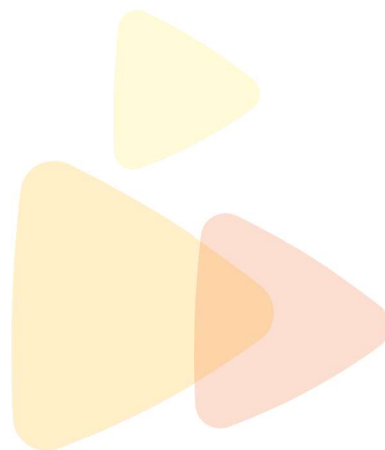
- 1 Phase UPS or 5 x 12V batteries backup power source option
- Rescue power limitation option depending on the capacity of UPS or batteries. Elimination of UPS battery and damages due to over current
- Seamless operation by the help of rescue start delay and rescue speed parameters in generator installed buildings





ARCUBE funkcije/ Features of ARCUBE

Število etaž / Number of Stops	do 16
Tip pogona / Drive Type	Električni vrtni / Traction
Vezava / Cabling	Serijska ali paralelna vezava COP in LOP panelov ARCODE kompatibilni indikatorji in naprave Serial or parallel connection options with LOPs and COPs ARCODE compatible serial communication units
Kopiranje / Car Positioning	Magnetna stikala ali motorski enkoder / Magnetic switches or motor encoder
Predodpiranje, niveliranje / Door Bridging	Vgrajeno / Available
Modeli / Models	4 kW (10A) / 5.5 kW (14A) / 7.5 kW (17A) & 11 kW (26A)
Upravljanje / Control Type	Zbirno v eno/obe smeri, klicno / Single Button Collective, Double Button Collective
Skupina dvigal / Group Control	Duplex / Duplex
Hitrost / Elevator Speed	Do 1.75 m/s
Tip regulacije motorja / Motor Drive type	Brezkontakorsko delovanje s funkcijo STO / Contactorless drive with STO function
Standard / Compliance to Standards	EN 81-20
Rollback / Rollback Prevention	Preprečevanje rollback efekta z anti-rollback in pre-torque funkcijam Rollback prevention at start through pre-torque and anti-rollback functions



Vgrajena kontrolna enota Integrated Lift Control Units



ARCODE

ARCODE je inovativen prelomen produkt v sklopu dvigal. ARCODE je integrirana kontrolna enota, ki združuje VVVF pretvornik, krmilnik za dvigalo in reševalno enoto.

ARCODE is an innovative, breakthrough product in lift industry. ARCODE is an integrated lift control unit that combines VVVF drive, control units and evacuation system.

S funkcijo direktnega pristajanja

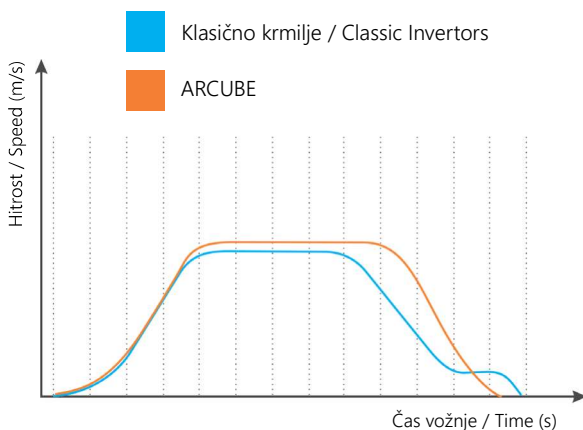
ARCODE:

- skrajša čas potovanja brez počasne vožnje pred pristajanjem, z dinamičnim izračunavanjem krivulje,
- nudi enostaven zagon s samodejnim določanjem točke zaviranja,
- brez dodatnih nastavitev parametrov zaradi avtomatskega izračuna krivulje in maksimalne hitrosti vožnje.

With "Direct Landing" feature,

ARCODE:

- Shortens travel time with removal of the drifting distance by dynamic calculation of the travel curve.
- Provides easy adjustment by automatic detection of the deceleration point.
- Does not require any additional adjustments for short-floor or high-speed lift applications.



Integrirana krmilna enota Integrated Lift Control Units

ARCODE modeli / ARCODE Models

Model	Nominalen tok	Velikost / Size
4B14A	14 A	258 x 372 mm
4B17A	17 A	258 x 372 mm
4B26A	26 A	258 x 372 mm
4B35A	35 A	258 x 472 mm
4B50A	50 A	258 x 472 mm
4B75A	75	258 x 472 mm



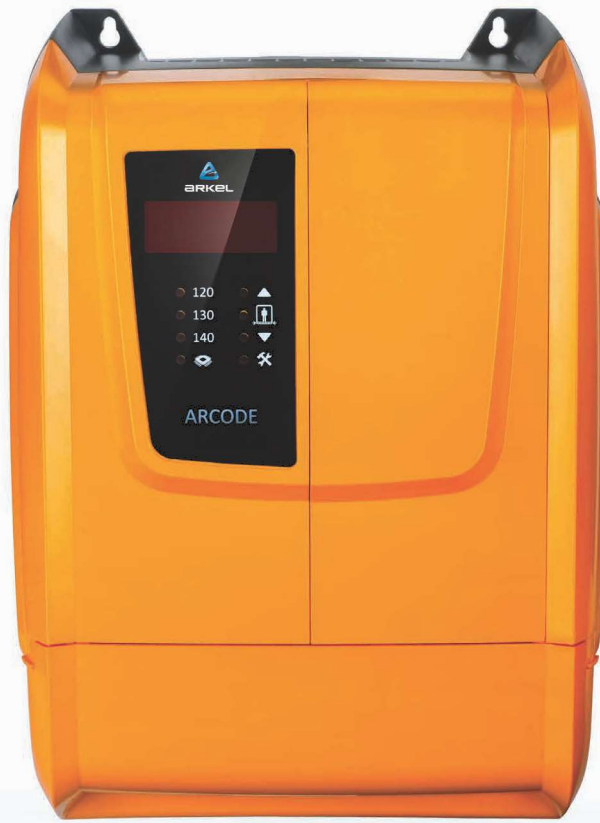
ZAKAJ ARCODE?

- Odlično udobje zaradi direktnega pristajanja
- Krajši čas vožnje kot v klasičnih sistemih
- Funkcije varčevanja z energijo
- Popolna sinhronizacija
- Kompaktna zasnova
- Hitra in enostavna montaža
- Enostavno posodabljanje

WHY ARCODE?

- Excellent comfort thanks to direct landing
- Shorter travel time compared to the standard VVVF systems
- Energy-saving modes
- Full synchronization
- Compact design
- Simple and fast installation
- Easy updating





ARCODE funkcije / Features

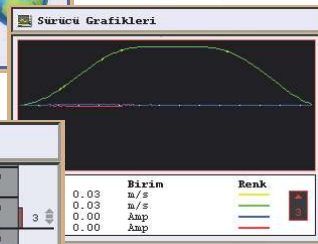
Motor / Motor Control	sinhronski in asinhronski motor	Synchronous & Asynchronous Machine
Napajanje / Power Input (L1,L2,L3)	AC 3 Ph., 320-420V, 50/60 Hz AC 3 Ph., 200-240V, 50/60 Hz	
Modeli / Models	ARCODE 14, 17, 26, 35, 50, 75 A	
Hitrost / Speed	do 4 m/s	Up to 4 m/s
Skupina dvigal / Group Operation	do 8 dvigal	Up to 8 lifts
Število etaž / Number of Floors	do 64	Up to 64 floors
Komunikacija / Communication Protocol	CANbus	
Enkoder tip / Encoder Options	5V TTL, 10-30V HTL, EnDat, SSI, SinCos, BISS	
Napetost varnostne verige / Safety Circuit Voltage	48 VAC - 230 VAC	

AREM

Ročni terminal ARCODE
Programming tool for ARCODE

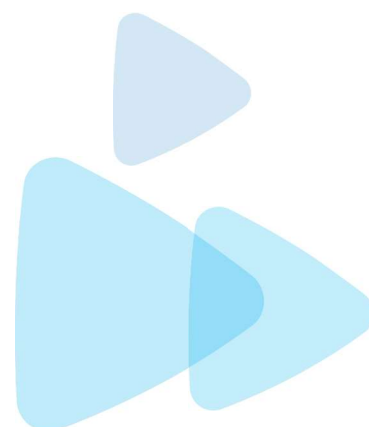
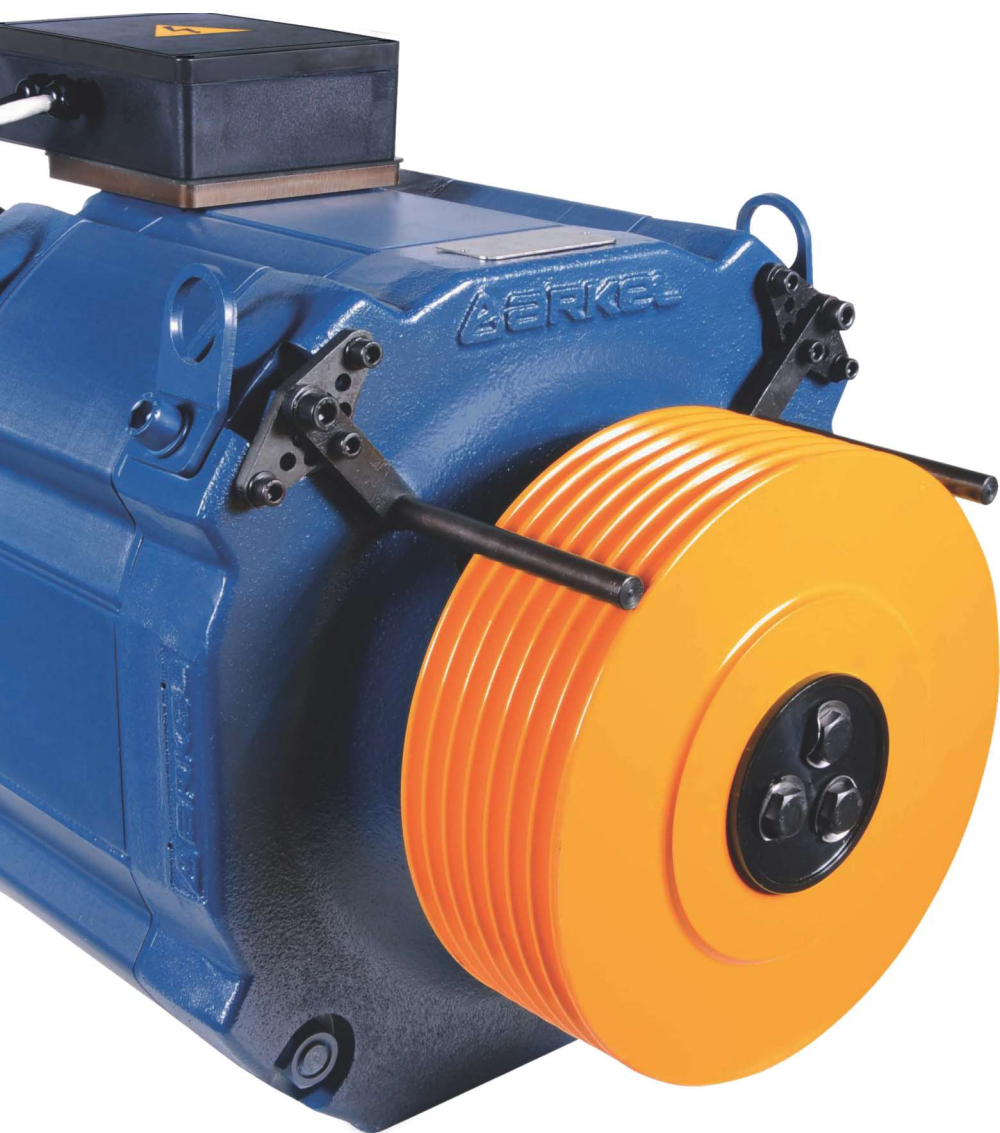
AREM funkcije/ Functions

- Shranjevanje in posodobitev parametrov z SD kartice
- 3 različni nivoji dostopa za specifične potrebe (gost, vzdrževalec in inštalater)
- Posodobitev vseh CANbus enot brez uporabe računalnika
- Dostop do sistema iz katerekoli lokacije na CAN bus
- Back-up and transfer of system parameters via SD Card
- 3 Different accessibility levels for specific needs (guest, maintenance and installation)
- Updating the software of all CANbus units without PC
- Access to the system from any point on CANbus



Hedef durağa gidiyor					
Hız	1.6	m/s			
Akım	0.3	amp			
Devir	291	rpm			
DC Bara	552	V			
Pozisyon	3.65	m			

120	14P	ML2	018	EN	MCT
130		ML1	017	KRC	DPM
140	LTR	069	070		BRK



Brezreduktorski motorji Gearless Lift Motors



ARS-C2-210-630
16B-6.6KW-14A

ARS-C1-240-320
16B-3.7KW-8.1A



ARS-D1-240-800
20B-11KW-24.6A

ARS-D3-320-1250
25B-20.7KW-45.7A



Brezreduktorski motorji

Novi Arkel sinhronski motorji so optimizirani za ARCODE sisteme, kar zagotavlja krajši čas montaže. Visok izkoristek motorjev s trifaznim napajanjem in trajnimi magneti zagotavlja vožnjo brez vibracij in spremenljivo hitrost brez reduktorja.

- Visoka raven udobja
- Zelo tiho delovanje
- Dvojna A3 testirana zavora
- Kompaktna zasnova
- Zaščita Ip44
- Nizka poraba energije

Gearless Motors for Lifts

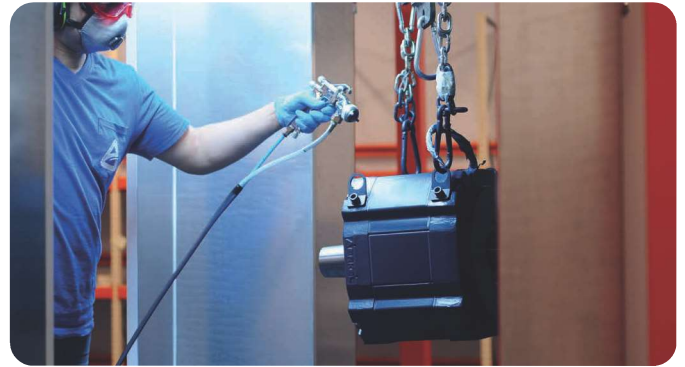
The new Arkel Gearless Motor optimized with ARCODE Integrated drive that ensures saving time for installation. High efficiency Arkel Gearless Motors that have 380V three-phase fixed magnet ensure operation of the lift without any vibrations by adjusting the speed with the frequency inverter that eliminates the need for gear box.

- High Comfort
- Very low noise level
- A3-Certified double wound brake
- Compact design
- IP44 protection class
- Low energy consumption

Specifikacija motorjev / Features of Gearless Lift Motors

No	Motor / Motor Types	Vrvenica Pulley Size [mm]	Nosilnost dvigala Capacity KG	Hitrost [m/s] Speed	Moč [kW] Power	Vpetje Susp. Type	Vrvi Rope X Pitch Angle
1	ARS-C1-240-320-16B-3,7KW-8,1A	240	320	1,6	3,7	2:1	4x6,5
2	ARS-D1-320-450-10B-4,1kW-13A	320	450	1,0	4,1	2:1	6x8
3	ARS-C1-160-480-16B-3,3kW-8,1A	160	480	1,6	3,3	2:1	7x6,5
4	ARS-C2-210-630-16B-6,6KW-14A	210	630	1,6	6,6	2:1	6x6,5
5	ARS-D1-320-630-16B-6,6KW-24,6A	320	630	1,6	6,6	2:1	6x8
6	ARS-D1-320-630-10B-4,1kW-13A	320	630	1,0	4,1	2:1	6x8
7	ARS-C3-210-800-10B-4,8KW-11,5A	210	800	1,0	4,8	2:1	7x6,5
8	ARS-C3-210-800-16B-8,2KW-17A	210	800	1,6	8,2	2:1	7x6,5
9	ARS-D1-240-800-10B-5,5KW-13A	240	800	1,0	5,5	2:1	7x6,5
10	ARS-D1-240-800-20B-11KW-24,6A	240	800	2,0	11	2:1	7x6,5
11	ARS-C2-160-800-10B-5,3KW-14A	160	800	1,0	5,3	2:1	7x6,5
12	ARS-C3-160-800-10B-5,3KW-17A	160	800	1,0	5,3	2:1	7x6,5
13	ARS-D2-320-800-10B-6,0kW-18,1A	320	800	1,0	6	2:1	6x8
14	ARS-D2-320-800-16B-9,6kW-29,2A	320	800	1,6	9,6	2:1	6x8
15	ARS-D1-240-800-16B-8,8KW-24,6A	240	800	1,6	8,8	2:1	7x6,5
16	ARS-D1-240-800-20B-11KW-24,6A	240	800	2,0	11	2:1	7x6,5
17	ARS-D2-240-1000-10B-8KW-18,1A	240	1.000	1,0	8	2:1	7x6,5
18	ARS-D2-240-1000-20B-16,1KW-34,9A	240	1.000	2,0	16,1	2:1	8x6,5
19	ARS-D2-240-1000-16B-12,8KW-34,9A	240	1.000	1,6	12,8	2:1	7x6,5
20	ARS-D3-320-1000-10B-7,0kW-31,4A	320	1.000	1,0	7	2:1	7x8
21	ARS-D3-320-1000-16B-11,5kW-31,4A	320	1.000	1,6	11,5	2:1	7x8
22	ARS-D3-320-1000-20B-13kW-37,8A	320	1.000	2,0	13	2:1	7x8
23	ARS-D3-320-1250-20B-16,6KW-37,8A	320	1.250	2,0	16,6	2:1	8x8
24	ARS-D3-320-1250-25B-20,7KW-45,7A	320	1.250	2,5	20,7	2:1	8x8
25	ARS-D3-320-1250-16B-13,2KW-37,8A	320	1.250	1,6	13,2	2:1	8x8
26	ARS-D3-320-1250-10B-8,3KW-31,4A	320	1.250	1,0	8,3	2:1	8x8
27	ARS-D3-320-1250-16B-13,2KW-31,4A	320	1.250	1,6	13,2	2:1	8x8
28	ARS-D3-320-1250-20B-16,6KW-37,8A	320	1.250	2,0	16,6	2:1	8x8
29	ARS-D3-320-1250-25B-20,7KW-45,7A	320	1.250	2,5	20,7	2:1	8x8

Brezreduktorski motorji Gearless Lift Motors



Podatki za izbiro motorja

- Napetost in frekvenca (1 fazni, 3 fazni, 220V, 380V, 400V, 440V, 50Hz, 60Hz)
- Hitrost motorja in statična obremenitev
- Montaža na podstavek B3 ali prirobnico B5 ali kombinirano B3&B5
- Razdalja med etažami (za hitrost)
- Nosilnost
- Temperatura in nadmorska višina okolja
- Tip zaščite (npr.: Ip54, Ip55...)
- Način delovanja (režim delovanja): S1, S3, S5
- Koeficient delovanja (faktor ED): npr.: 100%, 60%, 40%, 25%...
- Frekvenca delovanja: npr.: bolnišnica, trgovski center...
- Vlažnost okolja: potreba po grelcu in kondenzacijski cevi

Required for Choosing Gearless Motor:

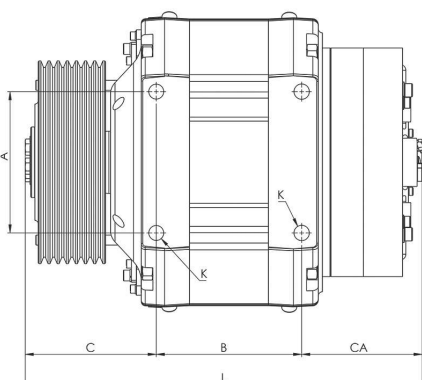
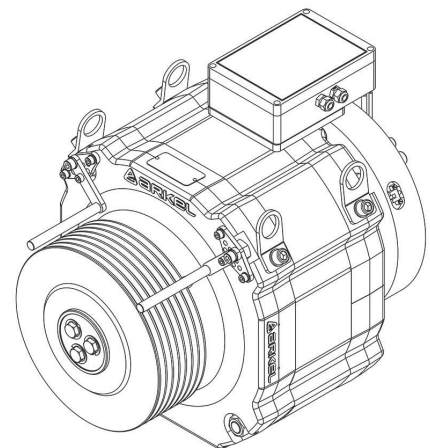
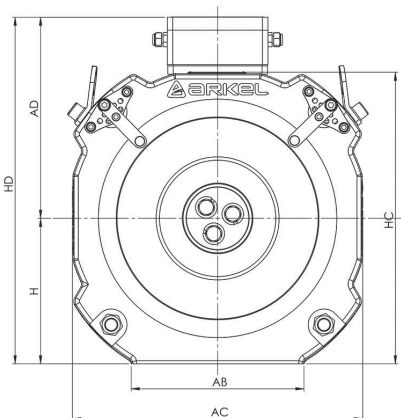
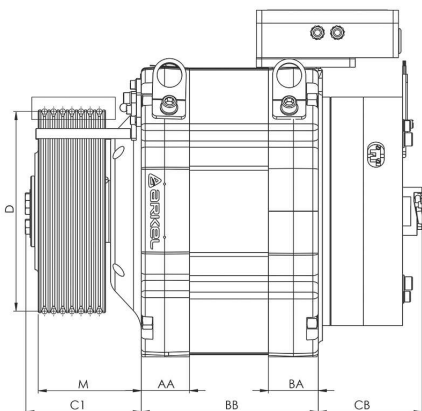
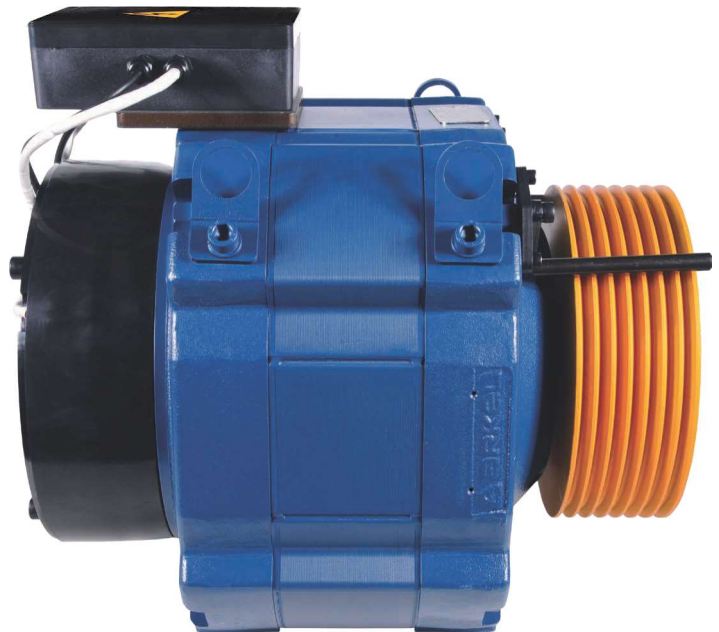
- Operating voltage and frequency (1 phase, 3 phase, 220 V, 380V, 400V, 440 V, 50 Hz, 60 Hz)
- Motor speed and static load size
- Build type: Pedestal B3, Flanged B5, Pedestal&Flanged B3 B5
- Floor length (for lift speed)
- Car capacity
- Temperature and elevation of the operating environment
- Protection type: such as IP54, IP55
- Operating type (Working regime): such as S1, S3, S5
- Operating coefficient (ED factor): such as 100%, 60, 40, 25
- Operating frequency: (such as hospital, shopping center etc.)
- Humidity level of the operating environment: Whether heater and condensate hole is required or not

Kompatibilnost z ARCUBE, ADrive in ARCODE

Visoka zmogljivost je dosežena z odpravo problemov nekompatibilnosti motorja in pogona z uporabo Arkel pogona in motorja

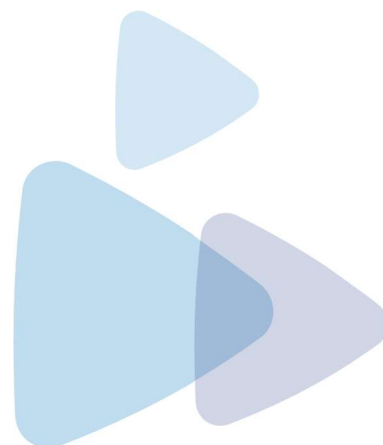
Full Compatible with ARCUBE, ADrive & ARCODE

High performance is achieved by eliminating possible incompatibility problems of drivers and motors with Arkel driver and motor combination.



DETAIL C
SCALE 2:3

Motor Model	A	B	K	C	C1	CA	CB	BB	AA	BA	L	AC	AB	HD	H	AD	HC	D	M	N	V	D _{is}	A _{brink} (kg)
ARS-C1-240-320-168-3.7KW-8.1A	130	175	M16	141	118	164	150	212	48	34	478	265	160	337	135	202	268	240	69	6.5	45°	4	123
ARS-C2-210-630-168-6.6KW-14A	130	215	M16	141	118	164	150	252	48	34	520	265	160	337	135	202	268	210	91	6.5	45°	6	137
ARS-C3-210-800-108-4.8KW-11.5A	130	255	M16	141	118	164	150	292	48	34	560	265	160	337	135	202	268	210	102	6.5	45°	7	152
ARS-C3-210-800-168-8.2KW-17A	130	255	M16	141	118	164	150	292	48	34	560	265	160	337	135	202	268	210	102	6.5	45°	7	152
ARS-D1-240-800-108-5.5KW-13A	170	175	M20	158	140	145	125	213	58	60	478	348	208	417	175	242	350	240	124	6.5	45°	7	189
ARS-D1-240-800-208-11KW-24.6A	170	175	M20	158	140	145	125	213	58	60	478	348	208	417	175	242	350	240	124	6.5	45°	7	189
ARS-D1-240-800-168-8.8KW-24.6A	170	175	M20	158	140	145	125	213	58	60	478	348	208	417	175	242	350	240	124	6.5	45°	7	189
ARS-D2-240-1000-108-8KW-18.1A	170	215	M20	158	140	145	125	253	58	60	518	348	208	417	175	242	350	240	124	6.5	45°	7	219
ARS-D2-240-1000-208-16.1KW-34.9A	170	215	M20	175	213	145	125	253	58	60	536	348	208	417	175	242	350	240	213	6.5	55°	8	222
ARS-D2-240-1000-168-12.8KW-34.9A	170	215	M20	158	140	145	125	253	58	60	518	348	208	417	175	242	350	240	124	6.5	45°	7	217
ARS-D3-320-1250-258-20.7KW-45.7A	170	260	M20	160	142	145	125	298	58	60	565	348	208	417	175	242	350	320	126	8	50°	8	258
ARS-D3-320-1250-168-13.2KW-37.8A	170	260	M20	160	142	145	125	298	58	60	565	348	208	417	175	242	350	320	126	8	50°	8	258
ARS-D3-320-1250-208-16.6KW-37.8A	170	260	M20	160	142	144.5	125	298	58	60	565	348	208	417	175	242	350	320	126	8	50°	8	258



VVVF frekvenčni pretvornik VVVF Speed Control Units (Inverters)

ADrive



Sinhronski / Asinhronski
Synchronous / Asynchronous

ZANESLJIVA REŠITEV COMFORTABLE SOLUTION

ADrive modeli / Models

Model	kW	In	
ADrive - 4B055	5,5 kW	14 A	28 A
ADrive - 4B075	7,5 kW	17 A	34 A
ADrive - 4B110	11 kW	26 A	52 A
ADrive - 4C150	15 kW	35 A	70 A
ADrive - 4C220	22 kW	50 A	100 A

VVVF regulator hitrosti

Funkcije

- Zasnova za uporabo v dvigalih, s specialnimi parametri za dvigala
- Kompatibilen z asinhronskimi (z ali brez enkoderja) in sinhronskimi (z enkoderjem) motorji
- Visoko udobje vožnje in mirno pristajanje
- Močno krmiljenje z uporabo vektorskega krmiljenja
- Prihranek energije do 40%
- Shranjevanje in kopiranje parametrov na ključek
- 14A, 17A, 26A in 50A modeli
- Statičen autotune za brezreduktorske motorje (z obešeno kabino)
- Delovanje v trifaznem sistemu (med 300 VAC - 420VAC)
- Opcijsko delovanje v enofaznem 230VAC sistemu
- Na voljo več jezikov vmesnika

VVVF Speed Control Units (Inverters)

Features

- Exclusively designed for lifts and special parameters for lift applications
- Compatibility with asynchronous (closed or open loop) and Gearless Motors
- High travel comfort and sensitive landing on floors
- Strong movement and operation momentum thanks to the vector control
- Up to 40% power saving for lifts
- Parameter key for saving and transferring the parameters
- 14, 17, 26, 35 and 50 Ampere rating models
- Static auto-tuning for Gearless Motors (without lifting the ropes)
- Operation with three-phase supply voltage (between 300 VAC-420 VAC)
- Operation with mono-phase, three-phase 230 VAC supply voltage (optional)
- Turkish, English and French language support



ENCABIT-Plus

Omogoča priklop absolutnega enkoderja in dodatnih funkcij za brezreduktorske motorje.

Absolute encoder connection and other functions used for Gearless Motors are supported by ENCABIT-Plus card.



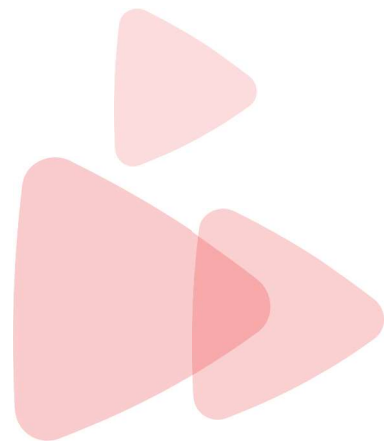
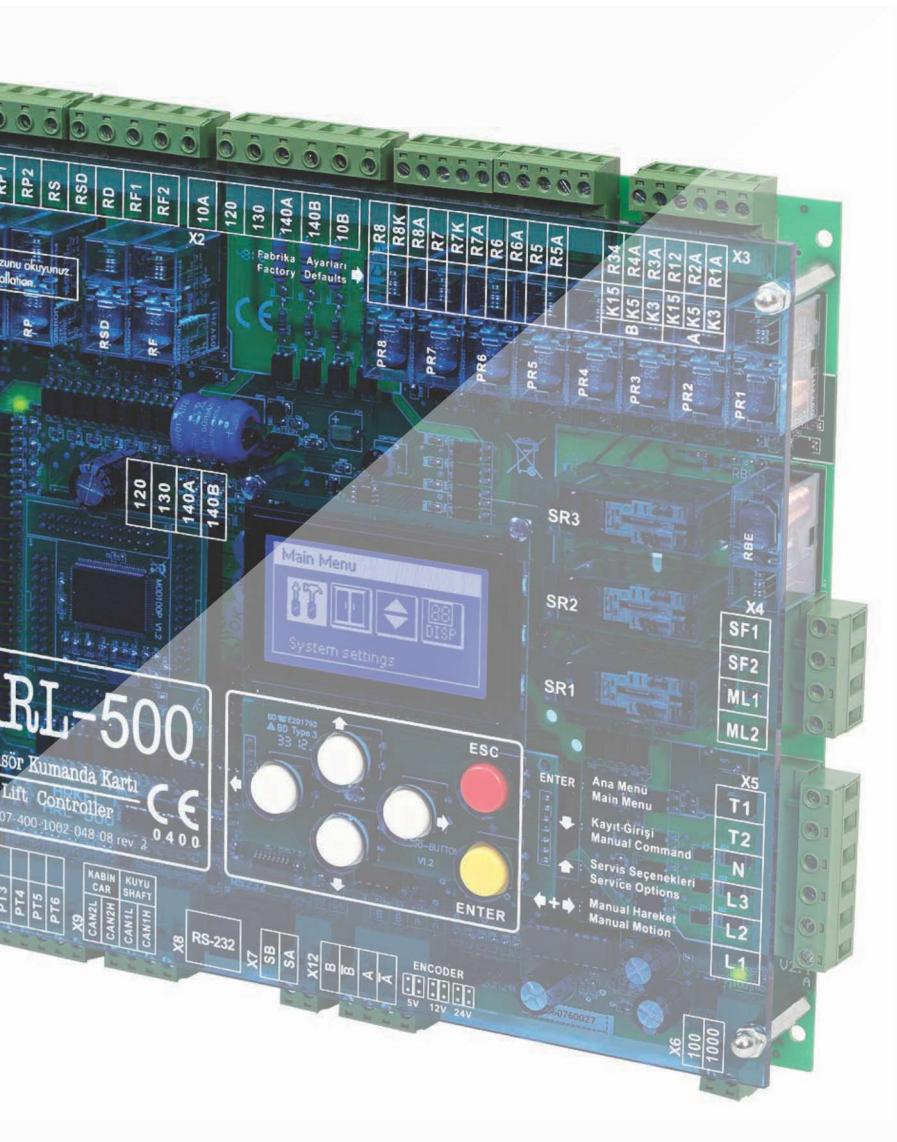
SCR01 ADrive oddaljena konzola (ADrive Button and Indicators)

SCR01 omogoča dostop do parametrov ADrive tudi v aplikacijah, kjer je ADrive montiran v jašku.

ADrive menu control is provided by SCR01 Button and Indicators, when it is impossible to directly access to the display panel of ADrive motor drive.

ADrive, vodilni Turški VVVF pretvornik namenjen za dvigala

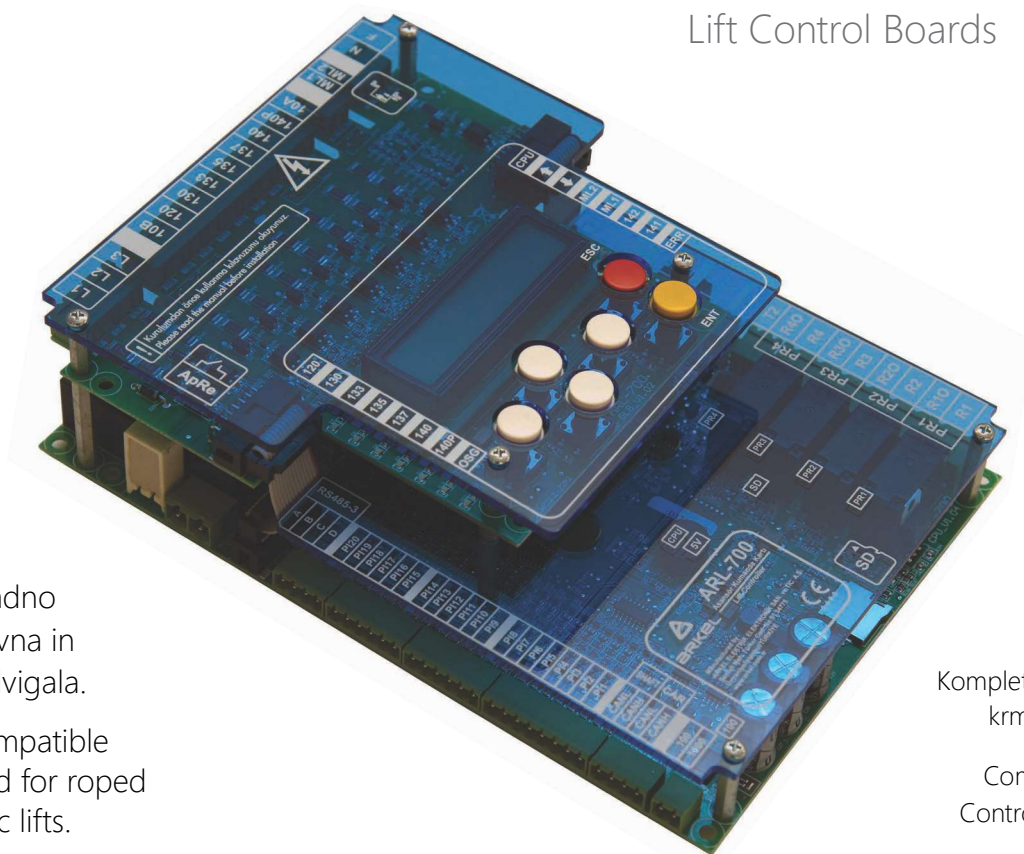
ADrive, Turkey's leading VVVF inverter designed for lift solutions.



Krmilniki za dvigala Lift Control Boards

Asansör Kumanda Kartları Lift Control Boards

ARL-700



EN81-20 skladno krmilje za vrvna in hidravlična dvigala.

EN 81-20 compatible control board for roped and hydraulic lifts.

Kompleten sistem krmilja dvigal

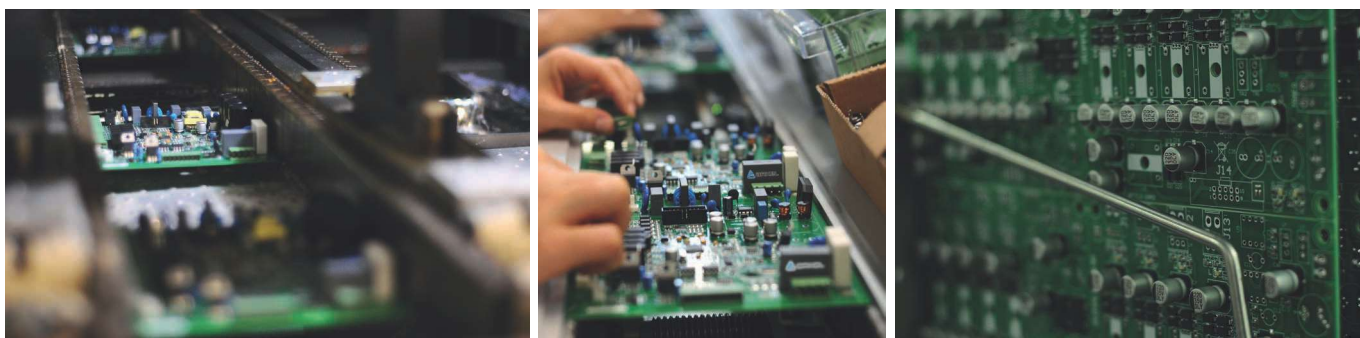
Complete Lift Control System

Funkcije

- Skladno z EN81-20 standardom pri vrvnih in hidravličnih dvigalih
- Posodobitev vseh naprav preko SD kartice
- Serijska povezava z ARKEL ADrive VVVF pretvornikom
- Vgrajeni releji za predodpiranje in niveliranje pri odprtih vratih
- Zazna kratek stik vratnih kontaktov
- Kompatibilna z vsemi ARCODE napravami
- Funkcija reševanja preko UPS
- Skupina 8 dvigal do 2.5m/s
- Možnost serijske vezave do 64 etaž
- Programabilni relejski (4) in tranzistorski (4) izhodi
- Paralelna ali serijska komunikacija z jaškovnimi indikatorji
- Podpira dvojne kabinskih vrat
- Paralelna ali serijska komunikacija s kabino
- Učenje jaška z motorskim enkoderjem ali magneti
- Omogoča uporabo AREM ročnega terminala kot pri ARCODE
- Omogoča ostale tipe pogonov in hidravličnih pogonov preko HSR kartice
- Vgrajena fazna zaščita
- Vgrajena zaščita motorja

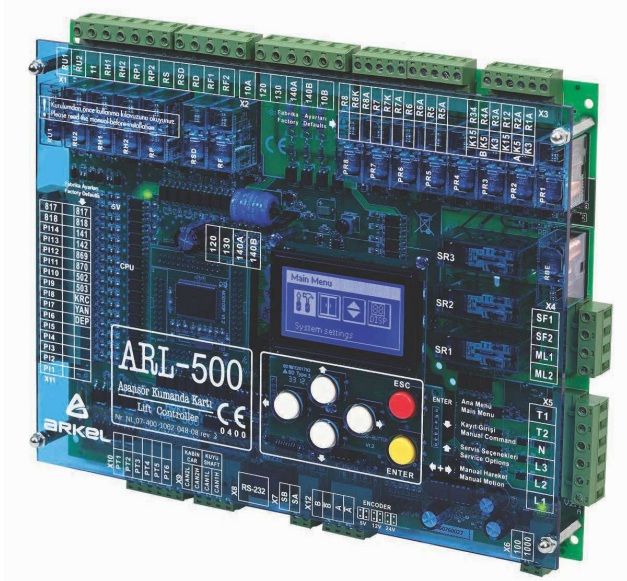
Features

- Compatible with EN81-20 hydraulic and traction systems
- Updating all equipment connected by SD card
- Serial communication with ARKEL ADrive
- Door pre-opening and level re-leveling with open door through the internal door bridging relays
- Equipment that detects the short circuit of door contacts
- Operation with all ARCODE peripheral units
- Emergency rescue function
- Group operation up to 2,5 m/s speed and 8 group lifts
- Possibility of serial installation up to 64 floors (CANbus)
- Programmable 4 relays, 4 transistor outputs
- Parallel and serial lift shaft communication through additional card
- Two door enclosure support
- Parallel and serial lift car communication through additional card
- Shaft learning with Motor Encoder or magnet
- Possibility of access through ARCODE programming hand terminal (AREM)
- Supporting other drives and hydraulic solutions through HSR card
- Internal phase sequence and motor protection circuit



Krmilniki za dvigala Lift Control Boards

ARL-500



NAPREDNA REŠITEV
NAPREDNE FUNKCIJE

ADVANCED SOLUTIONS,
ADVANCED FEATURES

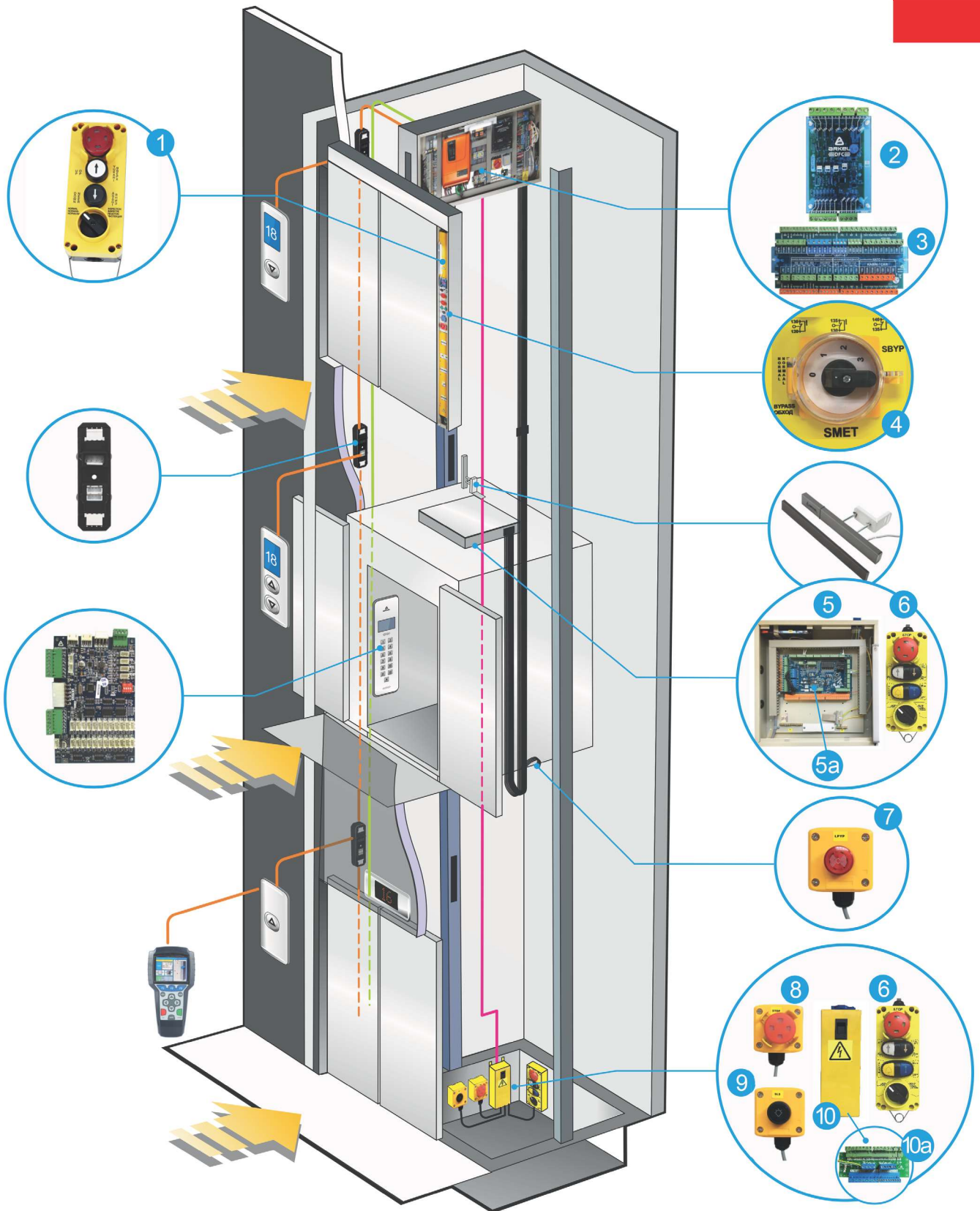
Kompleten sistem krmilja dvigal
Complete Lift Control System

Funkcije

- Podpira hidravlične in vrvne sisteme do 48 etaž
- Hitrost delovanja do 2.5m/s
- Skupina do 8 dvigal
- Kopiranje jaška z enkoderjem ali magnetnimi stikali
- Hitra serijska komunikacija z jaškovnimi indikatorji in kabino preko CANbus
- Specifične funkcije omogočene s programabilnimi vhodi in izhodi
- Vgrajeni releji za predodpiranje in niveliranje z odprtimi vrati
- Vgrajena fazna zaščita
- Vgrajena zaščita motorja
- Neodvisno krmiljenje dveh kabinskih vrat
- Vmesnik v več jezikih

Features

- Compatible with hydraulic and traction lifts up to 48 floors
- Operation up to 2,5 m/s speed
- Operation up to 8 lifts in group
- Magnetic switch or encoder system for car position data
- Fast and serial communication through floor and car units via CANbus
- Specific flexible solutions with free programmable inputs and outputs
- Early door opening and level renewal with open door through the internal door bridging relays
- Internal phase, sequenced motor protection circuit
- Independent automatic door control for floors based on two door support
- Turkish, English, Russian, French, Dutch, Swedish, Polish and Italian language support

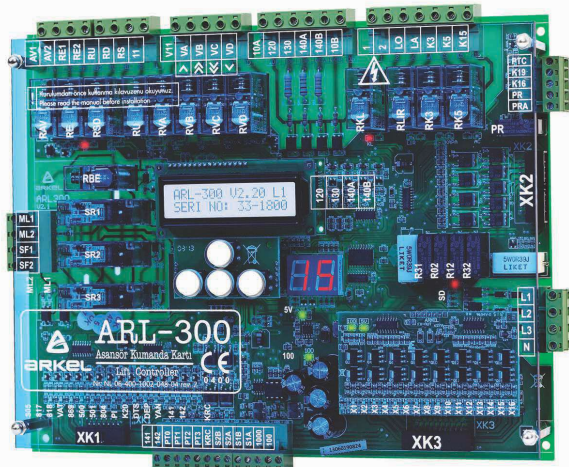


- 1 1003617 EK-6 konzola / Hand Terminal
- 2 1003447 DFC za ugotavljanje kratkega stika vrat / Door Contact Failure Checker
- 3 1003527 KBK-12 & KBK-13 vmesna kartica / Connection Board
- 4 1003544 BYPASS stikalo / Switch
- 5 1003630 RK77 kabinska doza / Inspection Box
- 5a 1003451 IBC-S kartica / Board

- 6 1003616 EK-4 konzola / Hand Terminal
- 7 1003546 BYPASS alarm / Flasher Alarm
- 8 1003547 Stikalo Stop / Emergency Stop Button
- 9 1003545 Tipka luč jaška / Shaft Lighting Button
- 10 1003646 PB-4 Jaškovna doza / Pit Box
- 10a 1003516 KDB kartica / Board

Krmilniki za dvigala Lift Control Boards

ARL-300



KOMPAKтна REŠITEV COMPACT SOLUTIONS

Krmilnik za dvigala
Lift Control Board for
Hydraulic and Rope Lifts

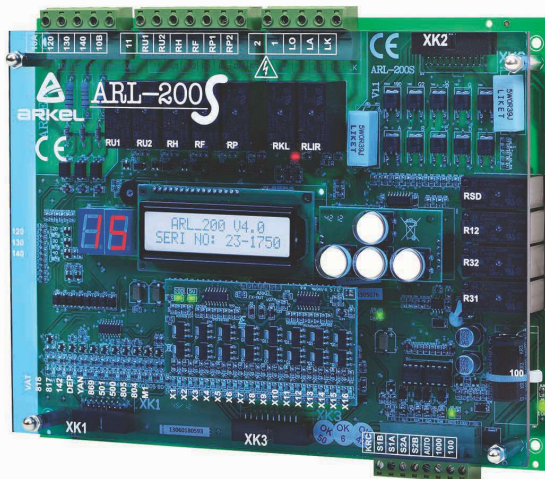
Funkcije

- Podpira vrhne in hidravlične sisteme do 24 etaž
- Hitrost do 1.6m/s
- Skupina do 4 dvigal
- Kopiranje jaška preko enkoderja ali magnetnih stikal
- Vgrajeni releji za predodpiranje in niveliranje pri odprtih vratih
- Vgrajena fazna zaščita in zaščita motorja
- Podpira krmiljenje avtomatskih vrat
- Podpira indikatorje z GRAY/Binarno kodo
- Podpira serijsko povezavo s kabino preko FX kartic
- Ustreza EN 81-1/2+A3 standardom
- Vmesnik na voljo v več jezikih

Features

- Compatible with hydraulic and traction lifts up to 24 floors
- Operation up to 1,6 m/s speed
- Operation up to 4 lifts in group
- Magnetic switch or encoder system for car position data
- Early door opening and level renewal with open door through the internal door bridging relays
- Internal phase, sequenced motor protection circuit
- Internal automatic door control inputs and outputs
- Gray/Binary code outputs for LCD and Dot Matrix Display
- Compatibility with serial car communication card (FX-RANGE) that ensures saving on cable and workmanship costs
- Conformity with EN 81-1/2+A3.
- Turkish, English, German, Russian, Romanian, Dutch and Italian language support

ARL-200S



Funkcionalni krmilnik za dvigala

Functional Programmed Control Board

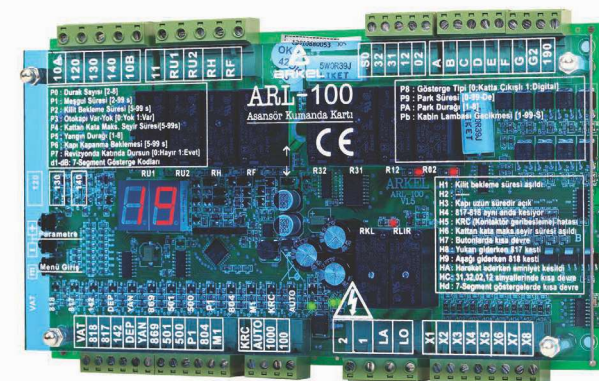
Funkcije

- Podpira vrhne sisteme do 16 etaž
- Skupina do 2 dvigali
- Kopiranje jaška z magnetnimi stikali
- Omogoča serijsko povezavo s kabino preko FX kartica
- Skladno z EN81-1 standardom
- Vmesnik na voljo v več jezikih

Features

- Compatible with single speed, two speed and VVVF variable speed systems up to 16 floors
- Operation with double lifts
- Magnetic switches and counter system method for car position data
- Compatibility with serial car installation card (FX-RANGE) that ensures saving on cable and workmanship costs
- Conformity with EN 81-1.
- Turkish, English, Dutch, French and Romanian language support

ARL-100



Krmilnik za enostavna dvigala Lift Control Board for Simple Control Systems

Funkcije

- Podpira vrhne sisteme do 8 etaž
- Kopiranje jaška z magnetnimi stikali
- Omogoča funkcije za požar, potres, preobremenitev
- Omogoča izhode za smer vožnje, luč zasedeno, luč kabine, v okvari
- Podpira avtomatska vrata
- Skladno z EN81-1 standardom

Features

- Compatible with single speed or two speed, simple control systems up to 8 floors
- Magnetic switches and counter system method for car position data
- Fire, earthquake, overload, motorman switch functions, direction arrows, car lamp, busy, out of service and automatic door card signal outputs
- Conformity with EN 81-1.

Krmilne omare za dvigala

Lift Control Panels



Tip pogona

- Vrvni
 - Enohitrotni
 - Dvohitrotni
- VVVF krmiljen
 - sinhronski motor
 - asinhronski motor
- Hidravlični

Avtomatska vrata

- Pol-avtomatska
- Avtomatska
- Dvojna avtomatska

Reševalna konzola

- Integrirana
- Zunanja

Pozivi

- Enostavni sistem
- Zbirni gor / dol
- Zbirni dve tipki
- Skupni (duplex...)

Skladnost

- EN 81-1/2 + A3, EN81-20...

Kabinske in jaškovne kartice

- Serijska vezava kabine in jaška
- Serijska vezava kabine, paralelna jaška
- Paralelna vezava jaška in kabine

Kopiranje jaška

- Z magnetnimi stikali
- Z enkoderjem

Zanesljivo in robustno
Endurable and Reliable



Drive System

- Rope
 - Single Speed
 - Two Speed
 - Speed Controlled
 - Synchronous (Gearless)
 - Asynchronous (Geared)
- Hydraulic

Automatic Door

- Semi-Automatic
- Full-Automatic
- Two Automatic Door

Recovery System

- Integrated into Control Panel
- External

Control System

- Simple Control
- Up / Down Collection
- Two Button Collection
- Group Operation

Conformity

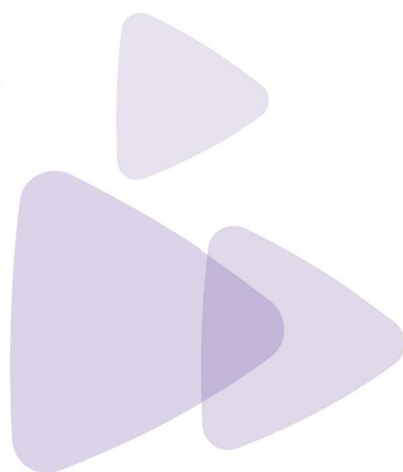
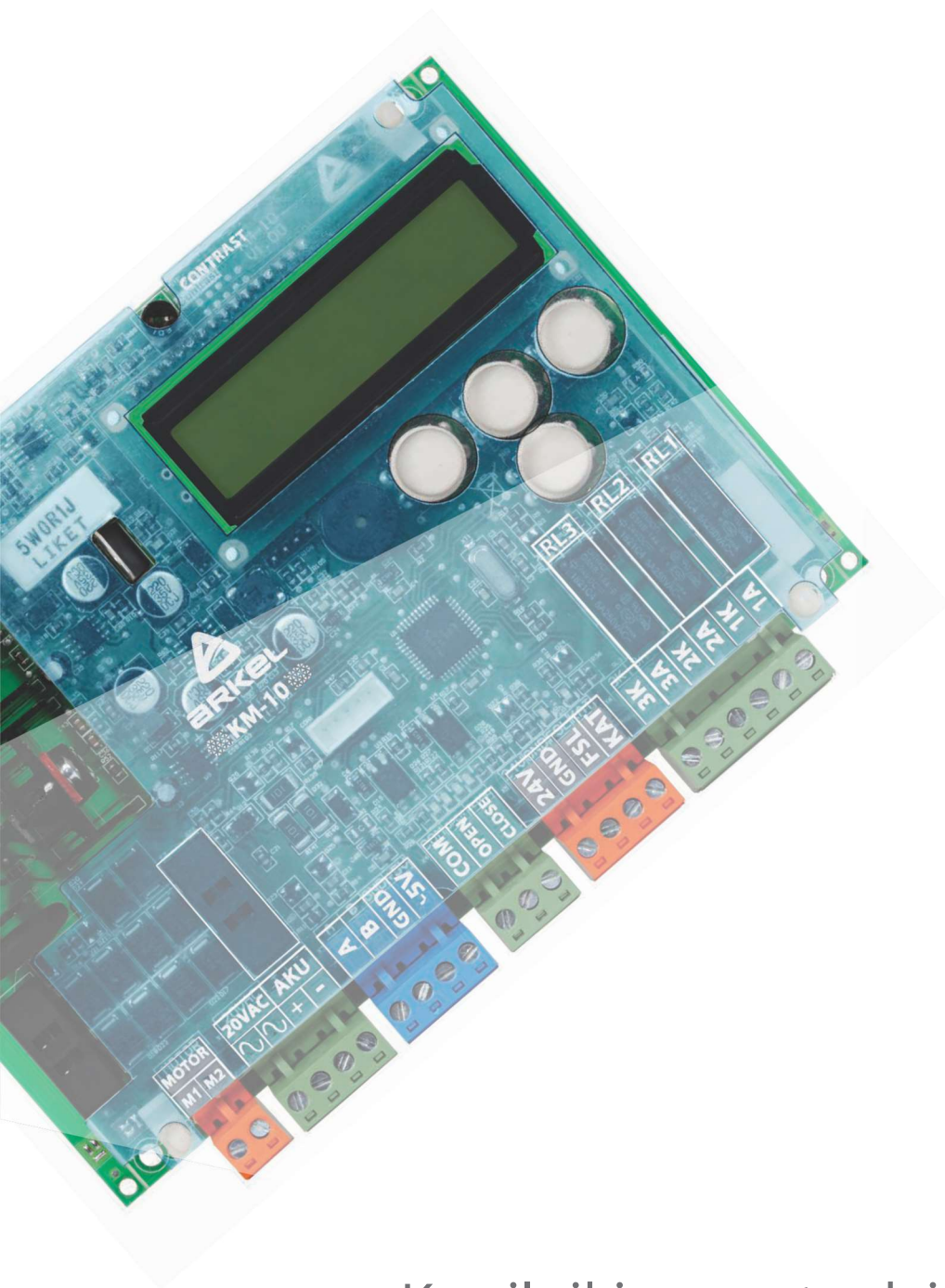
- EN 81-1/2 +A3

Cabin and Shaft Equipment

- Serial Car & Serial Leveling
- Serial Car & Parallel Leveling
- Parallel Car & Parallel Leveling

Car Position Data

- With Magnetic Switches
- With Encoder System



Krmilniki za vrata dvigala

Door Control Boards

Krmilniki za vrata dvigala

Door Control Boards

KM-30S



220 VAC sinhronski motor
teleskopska vrata

Door Control Board for
220 VAC Synchronous
Motor Telescopic Lift Doors

KM-30S zanesljivo delovanje:

KM-30S implementira power-o funkcijo, skladno z EN 81-20 standardom kar omogoča najvišjo varnost za potnike. Ko vrata zaznajo oviro se ponovno začnejo odpirati. Ob ponovnem zapiranju vrat, se vrata počasi zapirajo do točke ovire in nato nadaljujejo hitro od tam.

KM-30S tehnologija:

KM-30S krmilnik za vrata uporablja senzorsko in brezsenzorsko vektorsko kontrolo. Z uporabo 32-bitnega procesorja je sposoben brezhibno obdelati vse vhodne podatke iz motorja brez napak in zagotavlja gladko delovanje. Z uporabo lastnih SMD in THT polagalnikov zagotavljamo brezhibno delovanje. Vse funkcije so testirane na specialnih napravah. Vsak produkt je pred pakiranjem tako stestiran, kar zagotavlja odličen produkt.

Inteligenca KM-30S:

KM-30S uporablja inteligenten pristop k poganjanju motorja. Motor se seznanja s KM-30S. Seznanitev poteka z vnosom parametrov kot so moč motorja, število polov, prestavno razmerje. Pozicija in hitrost sta nato prebrana z enkoderja. Odmik od pričakovanega stanja je nato povratno poslan v motor. Na ta način motor nima izgub moči.

Udobje KM-30S:

KM-30S omogoča polno kontrolo motorja v primerjavi z ostalimi krmilniki in omogoča gladek prehod med pospeševanjem in zaviranjem. Omogoča hitrejšo zapiranje in odpiranje vrat brez vibracij. Ponovno odpiranje vrat po trku je omogočeno z zvočnim signalom. Prav tako preprečuje poškodbe potnikov s počasnim zapiranjem.

Montaža KM-30S

KM-30S je zasnovan za enostavno montažo. Lahko se montira na pogon vrat, poleg motorja vrat ali za jermen. Dimenzija je 310 x 112,6 x 30 mm. KM-30S je polno kompatibilen z Arkel „KM-30S Motorjem“

Reliability of KM-30S:

KM-30S contains power-o feature that complies with EN 81-20 standard to provide the highest safety level for passengers. When the door detects an obstacle, it stops closing and opens. When it is required to close the door again, it slowly switches from the position where it has detected an obstacle.

Technology of KM-30S:

KM-30S is a door controller that consists of the combination of the sensor and sensor-free vector control. Thanks to the 32-bit processor, it processes motor data without any errors and ensures perfect control. Our internal SMD and THT stringing operations are carried out by using the state-of-the-art machines. All functions are tested on our own-designed test benches. No products are activated without being approved from the test bench. In this way, we always provide our clients with excellent products.

Intelligence of KM-30S:

KM-30S has intelligent motor driving technique. The motor is subject to a recognition process. For this purpose, data such as user, current of the motor, number of poles, gear ratio etc. is entered on the menu. The loaded position and speed data is also transmitted back through an encoder. The errors are calculated and transmitted back to the motor. In this way, the motor in KM-30S does not suffer loss of power.

Comfort of KM-30S:

KM-30S ensures full control of the motor as compared to the standard drivers. It ensures softened passages between the acceleration and deceleration curves. It enables the door to open and close fast but without any vibrations. It could re-open with audible warning in case of congestion. It also prevents the passengers from suffering any damage by passing through the congestion area slowly.

Installation of KM-30S:

KM-30S was designed to ensure maximum ergonomics and ease of installation. It could be installed on the upper frame of the elevator door, next to the door motor or behind the door strap. Its sizes are 310 x 112,6 x 30 mm. KM-30S is fully compatible with Arkel "KM-30S Motor".

Napajalna napetost	: 220 VAC ± %10
Zaščita napajanja	: Varovalka (2 A)
Napetost motorja	: 220 VAC
Tok motorja	: 0.65 A (Nominal)
Krmiljenje motorja	: Vektorska kontrola
Zaščita motorja	: Preobremenitev in kratek stik

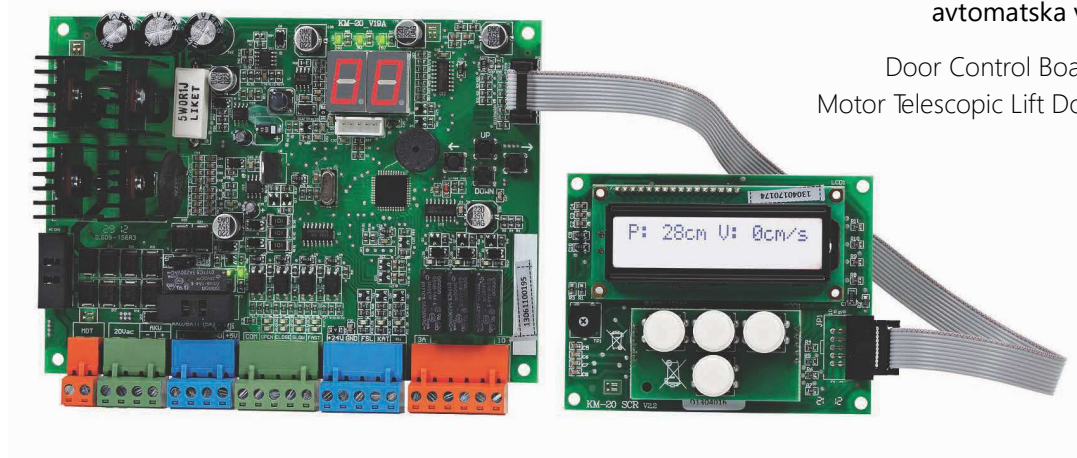
Input Supply Voltage	: 220 VAG ± %10
Supply Protection	: Fuse Protection (2 A)
Motor Voltage	: 220 VAG
Motor Output Current	: 0.65 A (Nominal)
Motor Control Method	: Vector Control
Motor Protection	: Overload and Short Circuit Protection



Krmilniki za vrata dvigala

Door Control Boards

KM-20



24VDC krmilnik za
avtomatska vrata dvigala

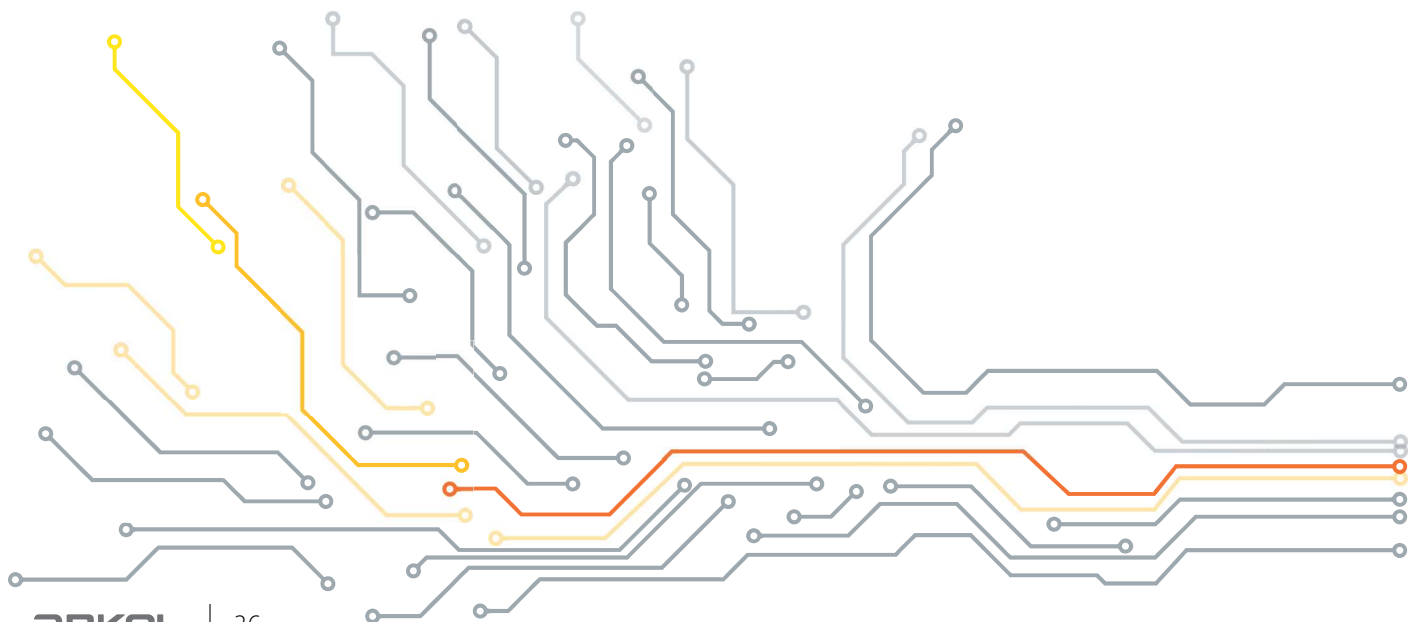
Door Control Board for 24 VDC
Motor Telescopic Lift Doors Features

KM-20 krmilnik / Control Board

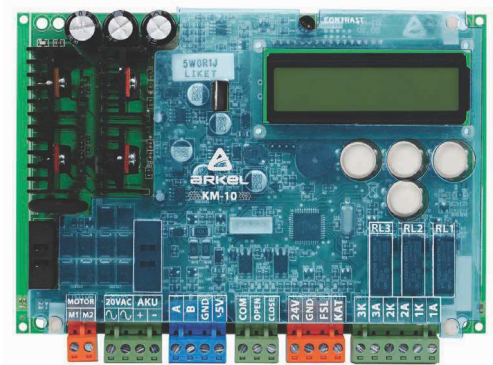
- Z vhodom za počasno vožnjo, se lahko vrata začnejo zapirati z zmanjšano hitrostjo in zvočnim opozorilom, v primeru okvare fotozavese.
- Z vhodom za hitro vožnjo je krmilnik primeren tudi za požarna vrata dvigala.
- Opcijski vmesnik omogoča nastavljanje vseh parametrov. Delovanje vrat je lahko tako popolnoma prilagojeno sistemu.
- Enostavni parametri (hitrost odpiranja/zapiranja, naletna, tip signalov...) so enostavno programabilni s 7 segmentnim prikazovalnikom.
- Based on slow speed signal input, a nudging function is used, which allows for closing the door slowly with an audible alarm in case of failure of photocell for a long time, without considering the photocell signal.
- Suitable for use with fire lift doors (high speed signal input can be detected).
- Optional KM-20 keypad allows for adjustment of all system parameters. The operation of the door can be extensively followed up.
- Basic parameters (door opening-closing speed, obstruction pressure, signal type and demo mode) can be easily adjusted via 7-segment displays and buttons on the board.

Funkcije (KM 20 & KM 10)

- Podpirajo teleskopska vrata z enosmernim motorjem z reduktorjem.
- Omogoča popolno kontrolo motorja v 4h conah preko dvo kanalnega visoko resolucijskega enkoderja.
- Z naprednim krmiljenjem motorja nudi zvezno vožnjo vrat brez tresljajev z resnično S krivuljo med prehodom hitrosti. Z izračunom pozicije ne potrebuje končnih stikal.
- Pozicija vrat je samodejno določena s pomočjo enkoderja in podatka iz motorja.
- Za popolno integracijo ima vgrajene vhode za polno odprta/zaprta vrata in nalet.
- V primeru izpada elektrike lahko deluje s pomočjo dveh 12V akumulatorjev. Tip alternativnega napajanje je lahko nastavljen preko jumperja.
- Akumulator se polni avtomatsko. Podpira tudi način spanja, ki prepreči prehitro staranje akumulatorja in praznenje ob izpadu toka.
- Parametri so enostavno berljivi in nastavljivi v cm.
- Vgrajen števec odpiranj/zapiranj vrat.
- Podpira počasno zapiranje po zaznavi ovire.
- Nastavljiva moč naletne naprave.



KM-10

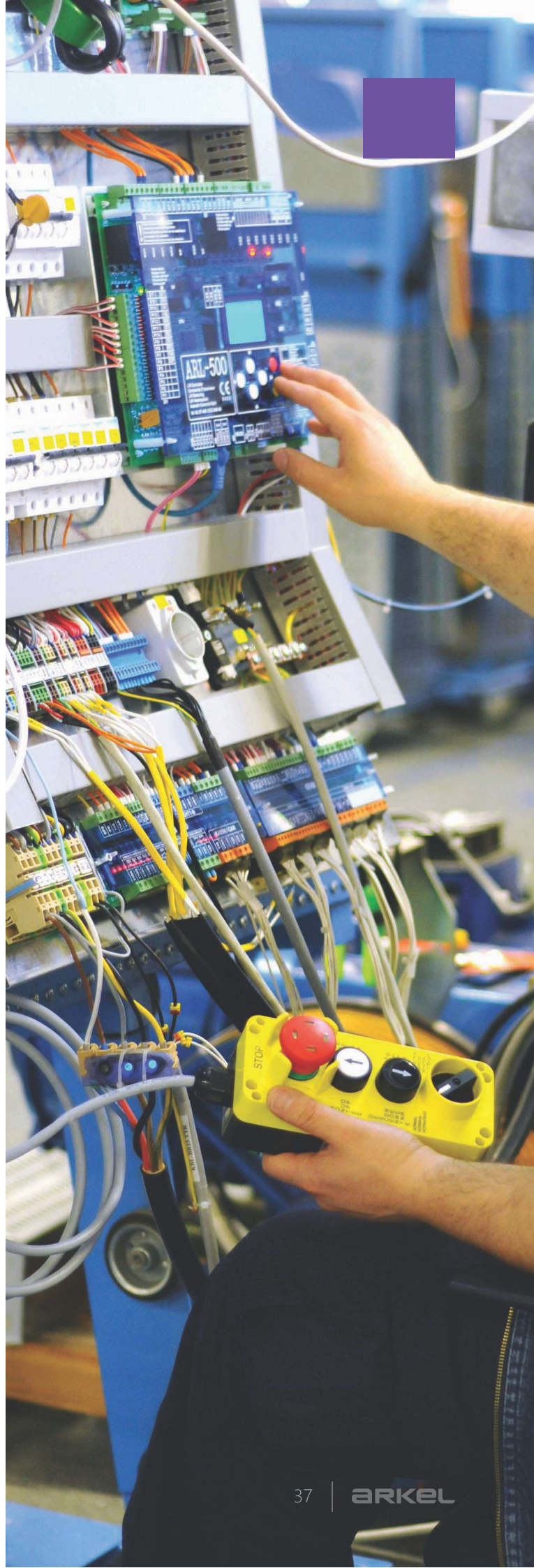


KM-10 krmilnik / Control Board

- Osnovni parametri (hitrost odpiranja/zapiranja, sila, tip signalov...) so enostavno programabilni preko LCD zaslona in tipk na plošči.
- Basic parameters (door opening-closing speed, obstruction pressure, signal type and demo mode) can be easily adjusted via LCD display and buttons on the board.

Features (KM 20 & KM 10)

- Door Control Boards are produced for telescopic lift doors with 24VDC reducer and DC motor.
- It provides complete management of the motor with its 4-zone motor control and double channel, high resolution encoder input.
- Thanks to its advanced software, it enables for serial but vibration-less door movements through real S softening on observation ramps and its algorithm that does not require limits.
- Limit switch is not required for door operator. Door width and door opened, and closed positions are automatically identified.
- For operation fully integrated with the control panels, the door might transmit contract outputs such as 'fully open, fully closed and obstruction/photocell detected'.
- In case of power failure, it can operate with 2 pieces of 12V batteries or 24VDC external supply. The emergency supply type can be easily selected via the jumper on board.
- Battery is charged by the board. It goes into sleep mode and protects the batteries from discharging upon opening the door due to emergency.
- For manufacturers, parameters that ensure flexibility in application such as motor reduction ratio, motor cycle, drive pulley circumference and Skate Opening zone could be provided.
- For user settings, speed settings designated in centimeters/seconds and ramp ways designated in centimeters could be assigned.
- It is possible to follow up the operation of the door, by using the on/off counter.
- Turkish, English and Greek language options are available.
- In case of door obstruction, the door could be re-opened with buzzer warning. Possible damage on passengers and door is prevented by moving from the obstruction zone slowly.
- Door open and close holding pressure and door obstruction detection pressure could be adjusted as required.



LCD10555 barvni LCD zaslon
 LCD10555 Multi Color LCD Display



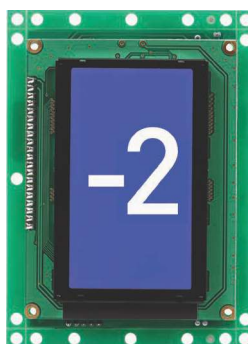
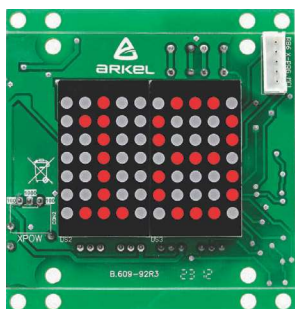
LCD 240X128A
 Resolucija 240 x 128 točk
 LCD indikator za dvigala

LCD 240X128A
 240 x 128 Pixel Resolution Graphic
 LCD Display for Lifts



2X3057 pikčasti indikator

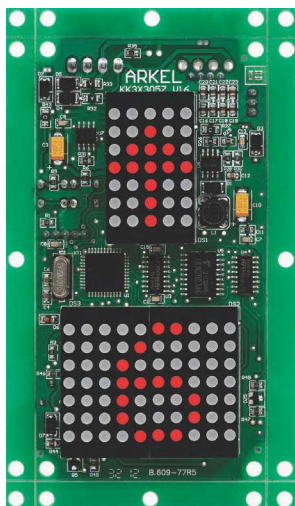
2X3057 Series Dot Matrix
 Call / Display Module



Pozivna kartica
 (brez indikatorja)
 Floor Call Board
 (Without Display)

3X3057 pikčasti indikator

3X3057 Series Dot Matrix
 Call / Display Module



LCD-A (40x70 mm) indikator
 LCD-A (40x70 mm) Call / Display Module

Indikatorji Displays



TFT LCD indikator z najavo etaž in avdio predvajalnikom
Special TFT LCD Display, Music and Announcement System for Lifts



LiftMedia Designer je uporabniško prijazen program za popolno prilagajanje videza indikatorja. Z naprednimi in fleksibilnimi grafičnimi pripomočki se lahko konfigurira: imena etaž, slike etaž, puščice smeri vožnje, logo, slika za ozadje, posebna sporočila, datum, ura, temperature, glasovna opozorila in avdio/video predvajalnik.

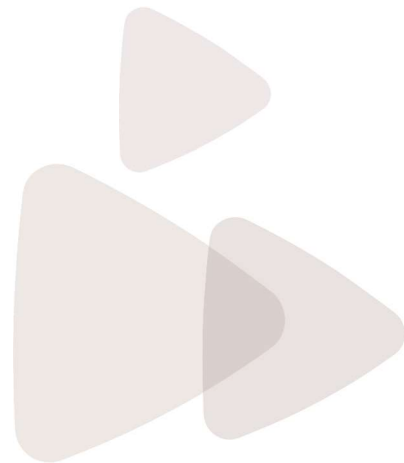
LiftMedia Designer is a user-friendly software to customize your displays. With its advanced and flexible graphic user interface, you can set up all display properties including: floor names, floor pictures, direction arrows, logo, background images, special messages, date, time, temperature, voice announcements and audio/video playback.

Funkcije

- 320x240 točk, 14.5cm velik barvni LCD prikazovalnik
- Programabilna glasovna opozorila (preobremenjeno, v okvari..)
- Predvajanje video datotek (na 1/4 zaslona)
- Predvajanje zvočnih datotek
- Prikaz trenutne etaže, slike etaže, smeri vožnje in indikatorjev (preobremenjeno, polno obremenjeno..)
- Prikaz datuma, ure in temperature
- Fleksibilno načrtovanje zaslona z enostavnim vmesnikom
- Podpira znane formate kot mp3, mpeg, avi, wmv, flv, mp4, m4u in wav
- Podpira znane formate slik kot bmp, jpeg, gif in png
- Omogoča popolno prilagajanje kompletnega zaslona, glasbe in videa
- Možna horizontalna in vertikalna postavitev
- Programiranje brez kabla, parametre in datoteke se prenese z SD kartico
- Podpira vse abecede (cirilico, grško, arabske črke..)
- Shranjevanje videa in slik na SD kartico
- Posodobitev firmware preko SD kartice

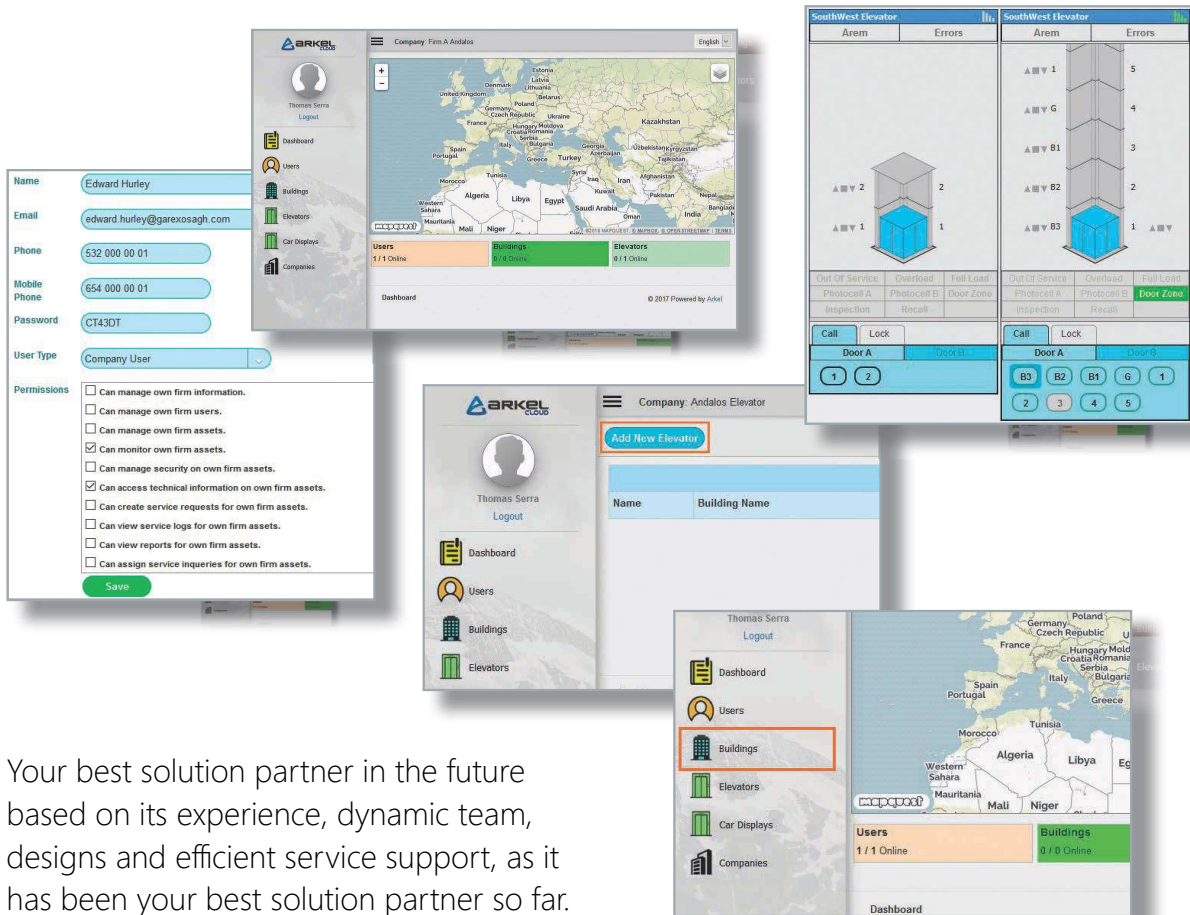
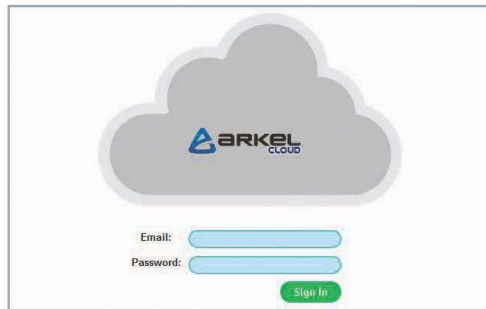
Features

- 320x240 pixels, 5.7" inch true color-screen
- Programmable voice announcements (overloaded, out of service etc.)
- Video playing capability (in approximately 1/4 of the screen)
- High quality music playback
- Display floor names, floor pictures, direction arrows and signal indicators (overloaded, fully loaded etc.)
- Date, time and temperature displays
- Flexible screen design with user-friendly visual design program
- Supports media file types such as mp3, mpeg, avi, wmv, flv, mp4, m4u and wav
- Supports image file types such as bmp, jpeg, gif and png
- All screen, sound, music and video elements can be customized by users
- Horizontal and vertical use
- No connection cables are required for programming. You can copy the design into SD card and insert the card into LiftMedia
- Unlimited alphabet support (Cyrillic, Greek, Arabic letters etc.)
- Saving videos and music on internal SD card.
- Updating software via SD card
- Turkish and English language support.



Internet digital
Internet of Lifts

Vaš najboljši partner v prihodnje
s pomočjo zanesljive ekipe in
učinkovite podpore za še lažje
delo kot do sedaj.



Your best solution partner in the future
based on its experience, dynamic team,
designs and efficient service support, as it
has been your best solution partner so far.

Asansörlerin İnterneti Internet of Lifts

ARKEL ARLIFT



- Oddaljen nadzor nad dvigali
- Oddaljena diagnostika okvar, dostop do statusa in delovanja dvigala v živo
- Oddaljen nadzor (klic v sili, zaklep etaž, parkirne vožnje, zaklep vrat...)
- Opozorila okvar preko SMS ali e-mail
- Statistika dvigala,
- Seznam voženj
- Dostop do električnih shem

- Remote monitoring of lifts
- Remote diagnostics of failures, live view of controller status screens
- Remote control (emergency calls, floor locking, parking mode, locking the doors, collection mode, change etc.)
- Error notifications (SMS and e-mail).
- Navigation route data to the mobile phone
- Statistical reports
- Past travel logs
- Access to the electrical diagrams of the lift





ARKEL CLOUD PRINCIP DELOVANJA

- Podatki iz ARCODE, ARCUBE ali ARL700 se preko ARLIFT prenesejo v ARKEL oblak.
- Dostop do ARKEL Cloud imajo samo avtorizirane osebe iz katerekoli naprave z internetnim dostopom.
- Uporabniki lahko v živo spremljajo okvare, klice, status, pozicijo in hitrost dvigala.
- Vsaka okvara sistema se avtomatsko pošlje na željen E-mail naslov ali preko SMS.

ARKEL CLOUD WORKING PRINCIPLE

- The data derived from ARCODE is transmitted to ARKEL Cloud system by means of ARKEL ARLIFT device.
- The data collected in ARKEL Cloud can be tracked by authorized users on live from any device that has internet connection.
- Authorized users can view the following data on live: failure status of lift, calling status, floor locking status, car position and car speed
- Any failure in the lift system is notified to the authorized users via SMS or E-mail.



ARCUBE, ARCODE ali ARL700
ARCUBE, ARCODE or ARL700



Oddaljen dostop, alarmne naprave in interkom

Remote Monitoring, Alarm and
Intercom System for Lifts

Oddaljen dostop, alarmne naprave in interkom za dvigala

Remote Monitoring, Alarm and Intercom System for Lifts

ARKEL ARLINE naprave

ARKEL ARLINE Units

ARKEL ARLINE-M

Osnovna enota z vgrajenim GSM/GPRS modulom in akumulatorjem
Main unit (with built-in GSM/GPRS module and battery)



ARKEL ARLINE-S-COP

Enota brez ohišja namenjena montaži v tipkalo

Non-enclosed alarm unit used in the car operating panel



ARKEL ARLINE-S-TP

Enota s tipko za alarm za jamo, nad in pod kabino.

Enclosed alarm unit used in the well on the car roof, under the car/pit and battery



ARKEL ARLINE-S-INT

Enota namenjena montaži v strojnico ali krmilno omaro.

Intercom unit used in the machine room or lift control panel

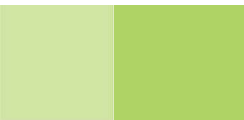


ARKEL ARLINE lastnosti

- Dvosmerna govorna alarmna naprava v skladu s trenutnimi EN 81-28:2018 (+AC:2019) in EN 81-70:2018 standardi
- Interkom sistem skladen z EN 81-20 standardom
- Avtomatski test delovanja in javljanje napak
- Funkcija filtriranja alarma
- Takojšen alarm in javljanje napak preko SMS in e-mail
- Takojšen dostop do napak dvigala in statusa alarma preko ARKEL Cloud
- Enostavna veza s samo 4 vodniki
- 5 programabilnih vhodov in dva relejna izhoda
- Prikaz lokacije okvarjenega dvigala

ARKEL ARLINE Specifications

- Remote alarm system compatible with current EN 81-28:2018 (+AC:2019) and EN 81-70:2018 standards
- EN 81-20-compliant intercom system
- Automatic communication test and failure notification
- Alarm filtering functions
- Instant alarm and error notifications via SMS and e-mail
- Instant monitoring of elevator error codes and alarm status via ARKEL Cloud
- Easy connection using only four cables
- Programmable five inputs and two relay outputs
- Getting directions to the building with lift failure on mobile devices



Regenerativne naprave za dvigala Regenerative Unit for Lifts



Naredimo naš svet
čistejši...



Let's make our world a
greener place...

Regenerativne naprave za dvigala

Regenerative Unit for Lifts



Omogoča 35% nižjo porabo energije med vožnjo z dvigalom

As compared with non-regenerative lifts, it ensures up to 35% energy saving during travelling of the lifts.

Pridobljena energija se vrne v omrežje in ponovno uporabi.

The generated energy is transferred back into the mains and then reused.



Nominalna moč, visoka učinkovitost
Posodabljanje preko USB na lokaciji

Pomembno za pridobitev certifikata učinkovitosti stavbe

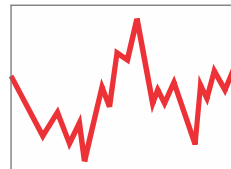
Nominal power, high performance

Updating with USB on site

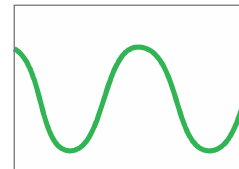
Important for green building certificate



*NON-EU COMPATIBLE
DYNAMIC
BREAKING UNIT*

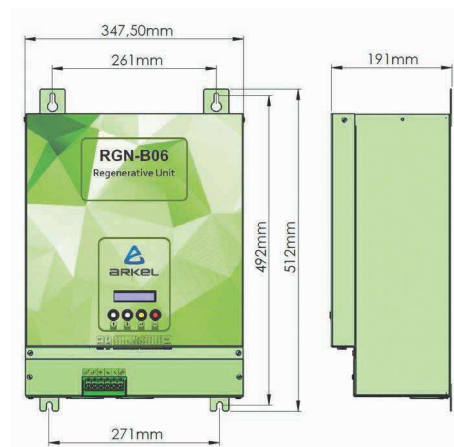


*ARKEL
RGN-B06
THD < %5*



RGN-B06 se popolnoma sklada z normo **EU** za vračanje energije nazaj v omrežje. (THD < %5)

RGN – 06 fully fits **EU-Norms** to regenerate power back to grid.

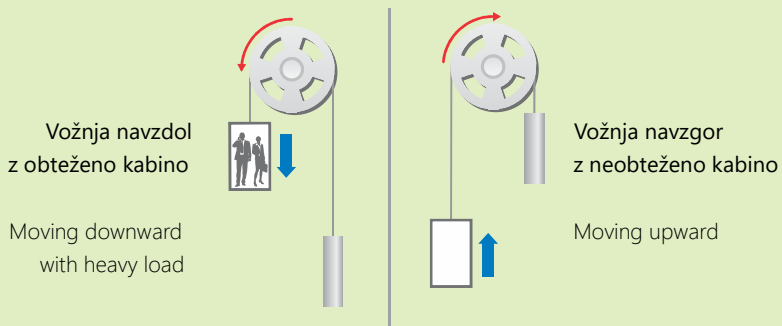


Regenerativne naprave za dvigala

Regenerative Unit for Lifts



Pogon dvigala ustvarja energijo v določenih pogojih



Energijo lahko vržete proč ali jo ponovno uporabite!
You can waste this energy or you can recover and reuse it!

Klasičen pristop

Traditional Method

Generirana energija je porabljena kot odvečna toplota na upor za zaviranje.
Generated energy is wasted as it is transformed into heat with braking resistance.



Zaviralni upor
Braking resistance

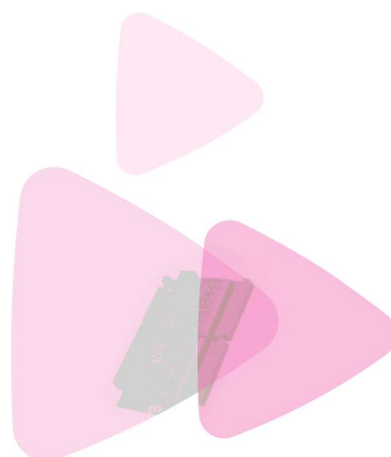
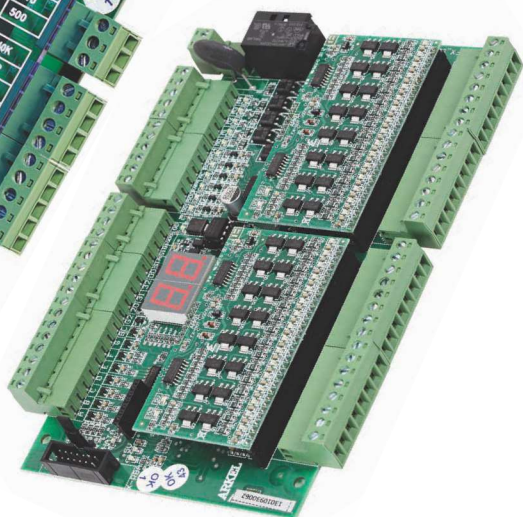
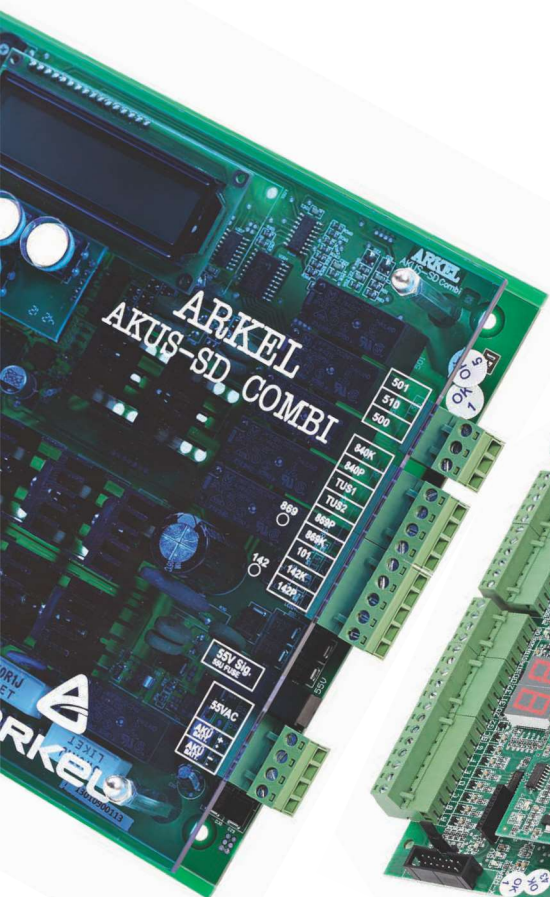
Z regenerativno enoto

with Regenerative Unit

Z regenerativno enoto lahko prihranite do 35% energije med vožnjo dvigal.
As compared with non-regenerative lifts, it ensures up to 35% energy saving during travelling of the lifts.



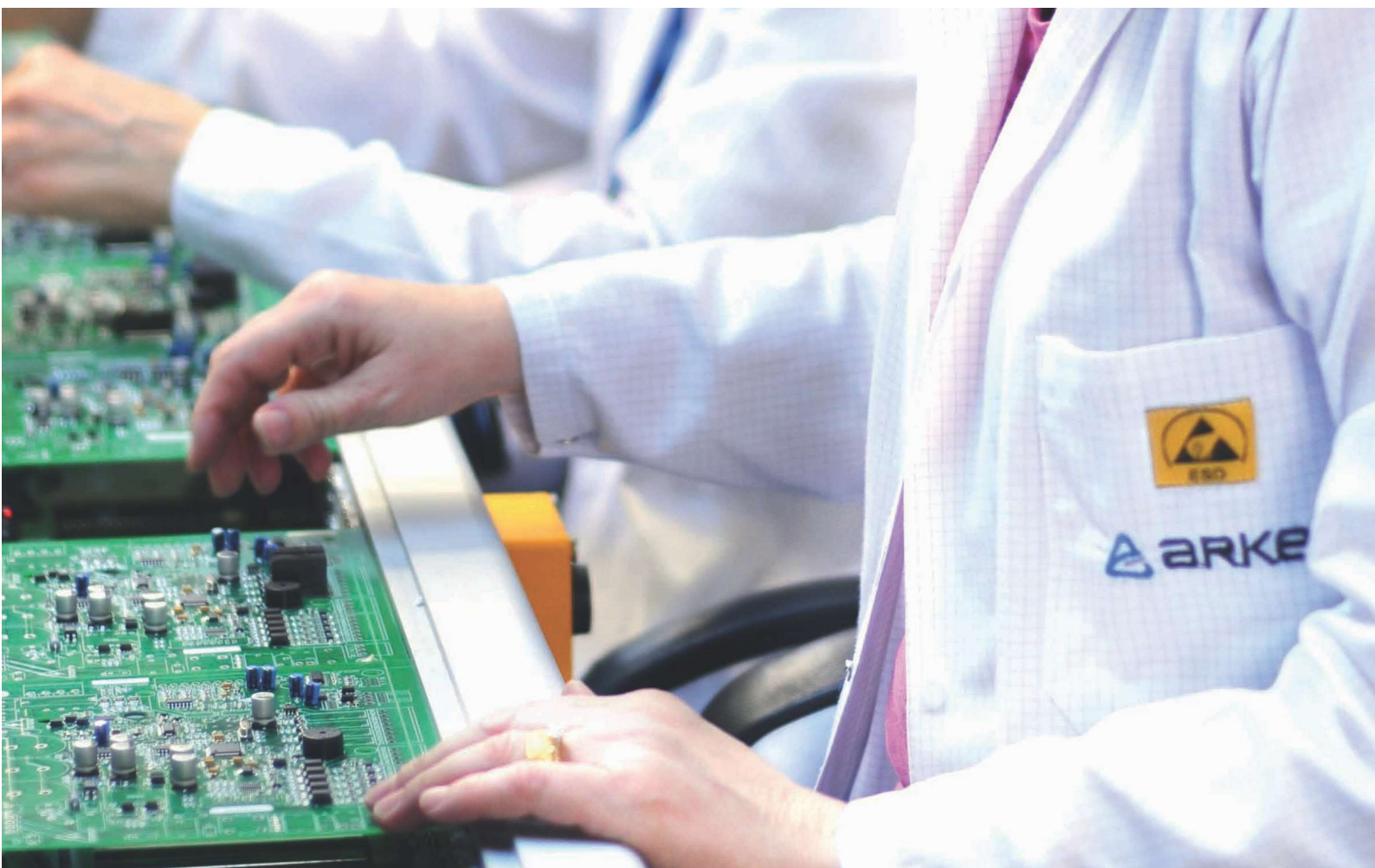
Generirana energija je ponovno uporabljena v mreži
The generated energy is transferred back into the mains and then reused.



Dodatne naprave Auxiliary Units



Rezultat izkušenj in idej o dvigalih
Edinstvene uporabniško prijazne naprave Arkel...



Result of extensive experience and lift ideas:
Unique user-friendly products by Arkel...

Dodatne naprave Auxiliary Units

AKUS
SD COMBI

AKUS-SD COMBI
sistem reševanja v sili
AKUS-SD COMBI
Emergency Rescue System



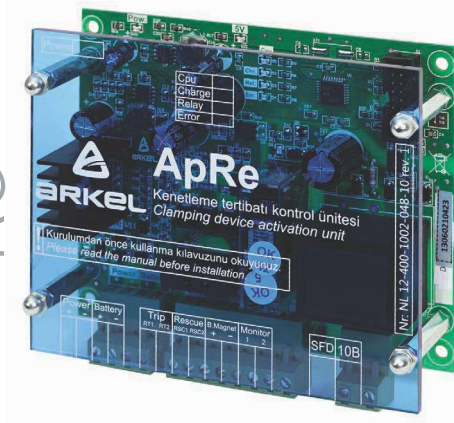
Funkcije

- V primeru izpada električnega toka se dvigalo samodejno odpelje v etažo, odpre avtomatska vrata in omogoči varen izstop potnikov
- Možna montaža na vsa dvigala z enohitrotnim, dvohitrotnim in VVVF reguliranim motorjem
- Dobi moč iz 5 akumulatorjev, ki ne potrebujejo vzdrževanja
- Zahvaljujoč pametnem polnjenju akumulatorja, lahko akumulatorji zdržijo več let
- Enostaven vnos parametrov preko integriranega zaslona in tipk
- Deluje open loop, brez potrebe po dodatnem senzorju

Features

- In case of mains power failure, it moves the car to upper or lower floor level, opens the automatic door and passengers are evacuated in safety
- Can be applied to all one speed, two speed or geared speed-controlled systems
- Gets the power from 5 pcs batteries which need no maintenance
- Thanks to smart battery charge system which does not tire the batteries and makes them work for many years
- With LCD screen, program parameters can be adjusted easily
- Works open loop. No need to put a sensor on the motor

Ap
Re



ApRe krmilnik za omejilnik hitrosti
(EN 81-1/2 + A3)

ApRe Regulator Control Unit Board
(EN 81-1/2 + A3)

Funkcije

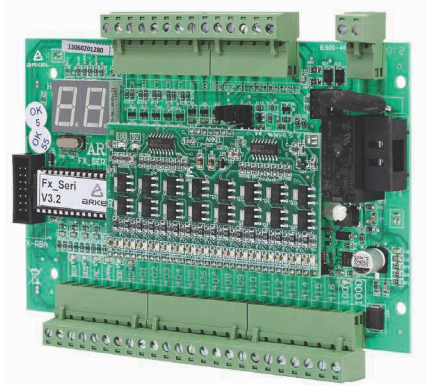
- ApRe je certificirana naprava v skladu z EN 81-1+A3
- Skupaj z ADrive inverterjem nudi sistem zaščite v povezavi z A3 kompatibilnim omejilnikom hitrosti proti nenadzorovanemu premiku kabine (UCM)
- V primeru prekinitve varnostne verige ali izpada toka, prepreči blokado omejilnika hitrosti.
- Se lahko uporablja za omejilnike hitrosti z 24VDC (do 6A) tuljavo.
- Deluje tudi v primeru izpada toka s pomočjo akumulatorja, ki se polni preko ApRe.
- Zvočni iz vidni signal v primeru okvare.

Features

- ApRe, which is certified according to EN 81-1+A3 standard together with ADrive inverter, is a protection system for A3 compatible overspeed governors against unintended car movement (UCM).
- In the event of safety circuit failure or power failure when lift is on the move, it blocks the activation of parachute brakes and overspeed governor to be locked up.
- Can be used with overspeed governors with 24Vdc (up to 6A) operating voltages.
- Works even in the event of mains failure with the help of additional battery which is to be charged by ApRe.
- Audible and visual warning in case of an error.

Serijska povezava med kabino in krmiljem
FX-RANGE Serial Car Communication Unit

FX-SERI



Funkcije

- Komunicira z ARL-200S in ARL-300 krmilnikom in omogoča montažo do 16 etaž.
- Ni potrebne povezave med kabino in krmilno omaro za kabinske ukaze, indikatorje, preobremenjeno, polno obremenjeno, gong, smeri vožnje, luč kabine, tipke za odpiranje/zapiranje vrat in inšpekcijske tipke.

Features

- Communicates with ARL-200S and ARL-300 control boards up to 16 floors via two cables
- No installation is needed between car and control panel for car buttons, indicators, overload, full load, gong, direction arrows, car lamp, automatic door open / close buttons and inspection operation buttons

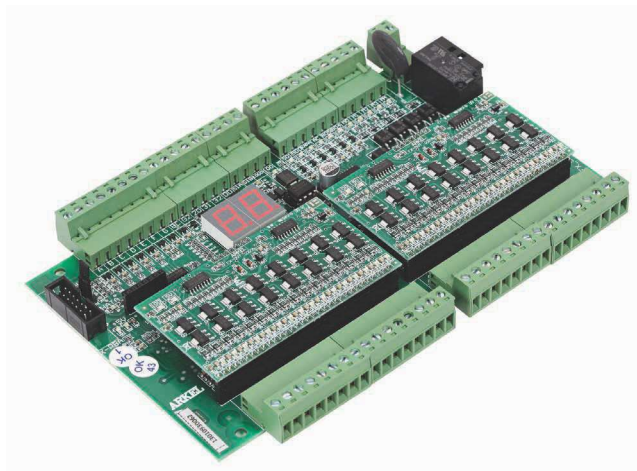
RK-SERIJA kabinskih doz / RK-RANGE Inspection Boxes
RK 22 / RK 32 / RK 51 / RK 71

RK SERISI



Serijska povezava med kabino in krmiljem
za visoke stavbe
FX-RANGE -32 Serial Car Communication
Board for High-Rise Buildings

FX-SERI-32



Funkcije

- Komunicira z ARL-300 krmilnikom preko dveh žic in omogoča montažo do 24 etaž
- Gray / binarni izhod indikatorja programabilen preko ARL-300 krmilnika
- Izhodi za 7 segmente, gray, inverzni gray, binarne, inverzne binarne prikazovalnike.
- Ni potrebne povezave med kabino in krmilno omaro za kabinske ukaze, indikatorje, preobremenjeno, polno obremenjeno, gong, smeri vožnje, luč kabine, tipke za odpiranje/zapiranje vrat in inšpekcijske tipke.

Features

- Communicates with ARL-300 control board up to 24 floors via two cables
- Gray / Binary code outputs programmed with ARL-300 lift control board's menu
- Display outputs A,B,C,D,E,F,G on FX-SERI32 board can be programmed as 7-segment, Gray code, Inverted Gray code, Binary code and Inverted Binary code
- No installation is needed between car and control panel for car buttons, indicators, overload, full load, gong, direction arrows, car light, automatic door open / close buttons, inspection operation buttons and Gray / Binary code outputs for position indicators

Funkcije

- Izhod za zasilno luč
- Alarm, gong in polnilec akumulatorja
- Konzola za servisno vožnjo
- Stop stikalo
- Dve vtičnici

Features

- Emergency light output
- Alarm, gong, battery charge
- Inspection switch and operation buttons
- Emergency stop (locked)
- Two sockets

Dodatne naprave Auxiliary Units

Sistem najave Voice Announcement System



G&Z PLUS

Funkcije

- G&Z plus je sistem najave etaž in medijski predvajalnik za dvigala
- G&Z plus uporablja standardne formate glasbe kot je mp3, ki se enostavno prenesejo preko SD kartice
- Brez potrebe po dodatni programski opreml
- Zvočne datoteke le prenese v ustrezno mapo na SD kartici
- Podpira gray, binarno kodo, Arkel counter in CANbus protokol kot vhodni signal
- Kompatibilen z Arkel CANbus (ARCODE, ARL700, ARCUBE) in ARL500 preko serijske povezave
- Neodvisne nastavitve glasnosti predvajalnika glasbe in najave etaž
- Prednaložene glasovne datoteke v angleškem in turškem jeziku

Features

- G&Z plus is a floor announcement and music system designed for lifts.
- G&Z plus uses the sound files in mp3 format, which can be transferred to the SD memory card easily.
- No additional software is required.
- Just drag and drop your sound files into the corresponding folders in SD card.
- Gray code, binary code, Arkel counter mode and CANbus mode are available as an input mode.
- Compatible with Arkel ARCODE ve ARL500 controllers via CANbus serial connection.
- Independent volume control for announcement and music.
- G&Z plus board comes loaded with default English & Turkish messages from the factory.

MTM

MTM Elektronsko monostabilno stikalo MTM Electronic Monostable Switch



Funkcije

- Elektronsko stikalo s senzorjem na halov efekt
- Dolga življenska doba z brezkontaktnim delovanjem
- Visoka odpornost na udarce in vibracije
- Stanje stikala vidno z LED lučko
- Uporabno tudi pri višjih hitrostih kabine zaradi hitrega delovanja
- Se lahko uporablja za zaznavo cone vrat
- Neodvisno delovanje od polaritete magneta
- Enostavna montaža z vključenim plastičnim nosilcem

Features

- Electronic switching design with hall effect sensor
- Long service life by contactless switching
- Strong protection from impact and vibration
- Ability to observe the operation by built-in LEDs
- Can be used in high speed lifts where a faster detection is required
- Can be used for door safe zone sensing
- Independent operation from the polarity of magnets
- Easy mounting by a plastic holder

LiftSense

Senzor pozicije kabine za predodpiranje in niveliranje Car Position Sensor for Re-Leveling and Door Pre-opening



Funkcije

- Delovanje z obstoječimi magneti cone vrat
- Brez potrebe po dodatnih magnetih in stikalih za niveliranje
- LiftSense vsebuje tako dva stikala za cono vrat kot senzorje za niveliranje
- Ni potrebe po natančnem nastavljanju magnetov za natančno niveliranje
- Resolucija pozicije 7.5mm določena z 20 senzorji
- Enostavna vezava s priloženim kablom
- LiftSense je patentiran Arklov produkt

Features

- Operates only with the existing door zone magnets.
- Neither extra magnets nor magnetic switches are required for re-leveling.
- LiftSense contains 2 pieces door zone detection sensors along with re-leveling sensors, therefore it is not necessary to use extra door zone switches.
- No need to relocate magnets to make sensitive level adjustment.
- 20 magnetic sensors, located in LiftSense, provides position sensitivity of 7,5 mm.
- Easy connection to the inspection box through 5 lines composed of supply+, supply-, ML1, ML2 and serial position communication channel.
- LiftSense is a patented product of Arkel



ARKEL

ARKEL ELEKTRİK ELEKTRONİK SAN. ve TİC. A.Ş.

Eyüp Sultan Mah. Şah Cihan Cad. No:69 Sancaktepe/Istanbul 34885 TÜRKİYE

T: +90(216) 540 67 24-25 | F: +90 216 540 6726

info@arkel.com.tr | satis@arkel.com.tr | www.arkel.com.tr



facebook.com / ArkelElektrik

twitter.com / ArkelElektrik

youtube.com / ArkelElektrik

linkedin.com / ArkelElektrik

instagram / arkel_elektronik

www.ersim.si | T: 051 626 420 | jakob.jug@ersim.si