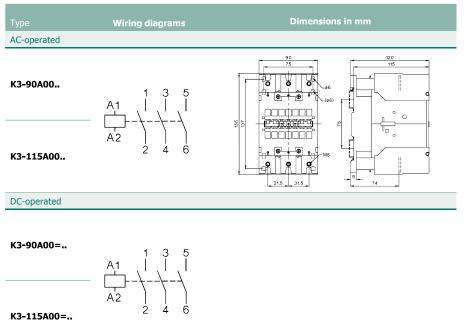
Contactors - Series K3-90A00.. to K3-115A00..





Technical Data acc. to IEC / EN 60947-4-1

Main contacts

	AC1 $I_e(=I_{th})$ open at 40°C	AC2, AC3 380-440V	AC2, AC3 500-690V	Fuse "Type1" gL (gG)
Туре	Α	kW	kW	A max.
K3-90A00	160	45	55	250
K3-115A00	200	55	55	250

Aux. contacts HN10, HN01

	AC1 $I_e(=I_{th})$ open at 40°C	AC15 220-240V	AC15 380-440V	Fuse "Type1" gL (gG)
Туре	A	A	A	A max.
K3-90A00+HN	10	3	2	20
K3-115A00+HN	10	3	2	20

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North America



Switzerland



Europe



Russia



China





Cable cross-sections

	solid	flexible	solid	flexible	Cables per clamp	Terminal screws	Screw driver	Tightening torque
	mm²	mm²	AWG	AWG				
Contacts	0.5-95 + 10-120	0,5-70 + 25-95	18-10	-	1	M8	4mm-Inbus	4-6.5 Nm 35-57 lb. inch
Spule / Coil	0.75-2.5	0.5-2.5	14-12	18-12	2	M3.5	Pozidriv Pz2	0.8-1.4 Nm 7-12 lb. inch

Coil	AC-operated	DC-operated
Operation range	0.85-1.1	0.8-1.1
inrush	165-220VA	250W
sealed	2.5-5VA	5W

Maximum ambient temperature

Main Contacts					
	operation		with thermal overload relay	enclosed	Storage
	open	enclosed	open		
Туре	°C	°C	°C	°C	°C
K3-90A00	40 to 100 (100) 1)	40 - 40	25 to 100	25 hr. : 40	F0 t- + 00
K3-115A00	-40 to +60 (+90) 1)	-40 to +40	-25 to +60	-25 to +40	-50 to +90

 $^{^{1)}}$ With reduced control voltage range 0.9 up to 1.0 x Us and with reduced rated current Ie /AC1 according to Ie /AC3

Frequency of operations **z**

Contactors without thermal overload relay

	Switching without load	AC3, I _e	AC4, \mathbf{I}_{e}	DC3, I _e
Туре	1/h	1/h	1/h	1/h
K3-90A00	3,000	300	120	300
K3-115A00	3,000	300	120	300

Switching time at control voltage Us $\pm 10\%$ ²⁾³⁾

	AC operated			DC operated		
	make time	release time	arc duration	make time	release time	arc duration
Туре	ms	ms	ms	ms	ms	ms
K3-90A00	20.25	25 50	10.15	20.25	25 50	10.15
K3-115A00	20-35	35-50	10-15	20-35	35-50	10-15

²⁾ Total breaking time = release time + arc duration



³⁾ Values for delay of the release time of the make contact and the make time of the break contact will be increased, if magnet coils are protected against voltage peaks (varistor, RC-unit, diode-unit)

⁴⁾ with integrated suppressor

Main Contacts

	Tated insulation Voltage $\mathbf{U_i}^{\text{1}}$	Making corpacity $I_{\rm eff}$ at $U_{\rm e}$ = 690V~	Breaking capacity $\mathbf{I}_{\mathrm{eff}}$ 400V \sim	K3-24 to K3-1200 cosφ= 0,35 500V~
Туре	V~	Α	А	А
КЗ-90А00	1,000	1,100	950	850
K3-115A00	1,000	1,200	1,100	1,000

¹⁾ Suitable at 690V for earthed-neutral systems, overvoltage category I to IV, pollution degree 3 (standard industry): U_{mm} = 8 kV. Data for other conditions on request.

Mechanical life

	AC operated	DC operated with economy resistor
Туре	S x 10 ⁶	S x 10 ⁶
K3-90A00	5	5
K3-115A00	5	5

Current heat losses

Power loss per pole at I_o/AC3 400V

contact resistance per pole

Туре	W	mOhm
K3-90A00	4.8	0.6
K3-115A00	7.9	0.5

resistance to shock acc. to IEC 68-2-27

Shock time 20ms sine-wave

	No	NC
Туре	g	g
K3-90A00	7	5
K3-115A00	7	5

resistance to climatic conditions acc. to IEC60068

Open-type devices are climate-resistant in the constant climate according to IEC60068-2-78 (this is a climate with an ambient temperature of 40°C and an atmospheric humidity of 90 to 95%). Enclosed devices are climate-resistant in an alternating climate according to IEC 68-2-30 (this is a moist alternating climate with a 24-hour cycle between climates with an ambient temperature of 25°C, and an atmospheric humidity of 95 to 100% and an ambient temperature of 40°C, and an atmospheric humidity of 90 to 96% in the presence of condensation during rises in temperature).

Maximum operating altitude

Data are valid up to an altitude of 2000m above sea level.



Main Contacts (cULus)

Rated operational current

"General Use"

Α

ONTACTORS K3-90A00 K3-115A	ONTACTORS K3-90A00 K3-115A	90A00 - K3-115A	ONTACTORS K3-90A00 K3-115A	ONTACTORS K3-90A00 K3-115A				
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Motor DOL 3-phase at 60Hz				
Rated operational power	110-120V 200V 220-240V 277V	hp hp hp	15 25 35	20 35 40
	380-415V 440-480V 550-600V	hp hp hp	50 65 85	60 75 100
Motor DOL 1-phase at 60Hz				
Rated operational power of AC motors at 60Hz (1ph)	110-120V 200V 220-240V 277V	hp hp hp	8 15 20 20	10 20 25 25
	380-415V 440-480V 550-600V	hp hp hp	30 40 50	40 50 60
Motor DOL 3-phase according to Rated operational current	ASME A17 600V	. 5 A	-	-
Rated operational power of 3-phase motors for elevators (500.000 operations)	110-120V 200V 220-240V	hp hp hp	- - -	- - -
	440-480V 550-600V	hp hp	- -	-
Rated current 2 series contacts	600V	А	-	-
Fuse Class RK5 / Short-circuit curre	ent ,	4/kA	300/10	300/10
Fuse Class T / Short-circuit current Rated voltage	A	A∕kA V	300/100 ³⁾ 600	300/100 ³⁾ 600
Auxiliary Contacts (cULus)			-	-

3) Class T and Class RK1

K3-90 K3-115

200

160

