

Main cable			
Pozidriv screwdriver		Size	2
Standard screwdriver		mm	0.8 x 5.5 1 x 6
Control circuit cables			
Pozidriv screwdriver		Size	2
Standard screwdriver		mm	0.8 x 5.5 1 x 6

Main conducting paths

Rated impulse withstand voltage	U_{imp}	V AC	8000
Overvoltage category/pollution degree			III/3
Rated insulation voltage	U_i	V AC	690
Rated operational voltage	U_e	V AC	690
Safe isolation to EN 61140			
between coil and contacts		V AC	440
between the contacts		V AC	440
Making capacity (p.f. to IEC/EN 60947)			
	U_p to 690 V	A	700
Breaking capacity			
220 V 230 V		A	500
380 V 400 V		A	500
500 V		A	500
660 V 690 V		A	320
Short-circuit rating			
Short-circuit protection maximum fuse			
Type "2" coordination			
400 V	gG/gL 500 V	A	80
690 V	gG/gL 690 V	A	63
Type "1" coordination			
400 V	gG/gL 500 V	A	160
690 V	gG/gL 690 V	A	80

AC

AC-1			
Rated operational current			
Conventional free air thermal current, 3 pole, 50 - 60 Hz			
Open			
at 40 °C	$I_{th} = I_e$	A	80
at 50 °C	$I_{th} = I_e$	A	71
at 55 °C	$I_{th} = I_e$	A	68
at 60 °C	$I_{th} = I_e$	A	65
enclosed	I_{th}	A	58
Conventional free air thermal current, 1 pole			
open	I_{th}	A	162
enclosed	I_{th}	A	145
AC-3			
Rated operational current			
Open, 3-pole: 50 – 60 Hz			
220 V 230 V	I_e	A	50
240 V	I_e	A	50
380 V 400 V	I_e	A	50
415 V	I_e	A	50
440V	I_e	A	50
500 V	I_e	A	50
660 V 690 V	I_e	A	32
380 V 400 V	I_e	A	50

Motor rating	P	kWh	
220 V 230 V	P	kW	15.5
240V	P	kW	17
380 V 400 V	P	kW	22
415 V	P	kW	30
440 V	P	kW	32
500 V	P	kW	36
660 V 690 V	P	kW	30

AC-4

Open, 3-pole: 50 – 60 Hz			
220 V 230 V	I_e	A	21
240 V	I_e	A	21
380 V 400 V	I_e	A	21
415 V	I_e	A	21
440 V	I_e	A	21
500 V	I_e	A	21
660 V 690 V	I_e	A	17

Motor rating	P	kWh	
220 V 230 V	P	kW	6
240 V	P	kW	6.5
380 V 400 V	P	kW	10
415 V	P	kW	11
440 V	P	kW	12
500 V	P	kW	13
660 V 690 V	P	kW	14

DC

Rated operational current, open			
DC-1			
60 V	I_e	A	60
110 V	I_e	A	50
220 V	I_e	A	45
440 V	I_e	A	2.9
DC-3			
60 V	I_e	A	60
110 V	I_e	A	50
220 V	I_e	A	25
440 V	I_e	A	0.6
DC-5			
60 V	I_e	A	60
110 V	I_e	A	50
220 V	I_e	A	25
440 V	I_e	A	0.6

Current heat loss

3-pole at I_{th}		W	18.9
Current heat loss at I_e to AC-3/400 V		W	9.9
Impedance per pole		mΩ	1.9

Magnet systems

Voltage tolerance			
AC operated	Pick-up	$x U_c$	0.8 - 1.1
Drop-out voltage AC operated	Drop-out	$x U_c$	0.3 - 0.6
DC operated	Pick-up	$x U_c$	0.7 - 1.2
Notes			RDC 24 (U_{min} 24 V DC/ U_{max} 27 V DC) Example: $U_c = 0.7 \times U_{min} - 1.2 \times U_{max} / U_c = 0.7 \times 24 V - 1.2 \times 27 V$ DC
DC operated	Drop-out	$x U_c$	0.15 - 0.6