

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	400
between the contacts		V AC	400
Making capacity (p.f. to IEC/EN 60947)			
	U_p to 690 V	A	168
Breaking capacity			
220 V 230 V		A	120
380 V 400 V		A	120
500 V		A	100
660 V 690 V		A	70
Short-circuit rating			
Short-circuit protection maximum fuse			
Type "2" coordination			
400 V	gG/gL 500 V	A	20
690 V	gG/gL 690 V	A	20
Type "1" coordination			
400 V	gG/gL 500 V	A	35
690 V	gG/gL 690 V	A	25

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	22
at 50 °C	$I_{th} = I_e$	A	21
at 55 °C	$I_{th} = I_e$	A	21
at 60 °C	$I_{th} = I_e$	A	20
enclosed	I_{th}	A	18
Conventional free air thermal current, 1 pole			
open	I_{th}	A	50
enclosed	I_{th}	A	45
AC-3			
Rated operational current			
Open, 3-pole: 50 – 60 Hz			
220 V 230 V	I_e	A	12
240 V	I_e	A	12
380 V 400 V	I_e	A	12
415 V	I_e	A	12
440V	I_e	A	12
500 V	I_e	A	10
660 V 690 V	I_e	A	7
380 V 400 V	I_e	A	12
Motor rating	P	kWh	
220 V 230 V	P	kW	3.5
240V	P	kW	4
380 V 400 V	P	kW	5.5
415 V	P	kW	7

440 V	P	kW	7.5
500 V	P	kW	7
660 V 690 V	P	kW	6.5
AC-4			
Open, 3-pole: 50 – 60 Hz			
220 V 230 V	I _e	A	7
240 V	I _e	A	7
380 V 400 V	I _e	A	7
415 V	I _e	A	7
440 V	I _e	A	7
500 V	I _e	A	6
660 V 690 V	I _e	A	5
Motor rating			
220 V 230 V	P	kWh	
240 V	P	kW	2
380 V 400 V	P	kW	2.2
415 V	P	kW	3
440 V	P	kW	3.4
500 V	P	kW	3.6
660 V 690 V	P	kW	3.5
660 V 690 V	P	kW	4.4

DC

Rated operational current, open			
DC-1			
60 V	I _e	A	20
110 V	I _e	A	20
220 V	I _e	A	15
440 V	I _e	A	1.3
DC-3			
60 V	I _e	A	20
110 V	I _e	A	20
220 V	I _e	A	1.5
440 V	I _e	A	0.2
DC-5			
60 V	I _e	A	20
110 V	I _e	A	20
220 V	I _e	A	1.5
440 V	I _e	A	0.2

Current heat loss

3-pole at I _{th}	W	4.5
Current heat loss at I _e to AC-3/400 V	W	1.5
Impedance per pole	mΩ	4.6

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	0.8 - 1.1
Notes			0.85 - 1.1 only with auxiliary contact module with 3 or more N/C contacts 0.7 – 1.3 without auxiliary contact module and at ambient air temperature + +40 °C
DC operated	Drop-out	x U _c	0.15 - 0.6
Notes			at least smoothed two-phase bridge rectifier or three-phase rectifier
Power consumption of the coil in a cold state and 1.0 x U _c			
50 Hz	Pick-up	VA	24
50 Hz	Sealing	VA	3.4
50 Hz	Sealing	W	1.2