

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	144
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
<b>AC-4</b>			
Open, 3-pole: 50 – 60 Hz			
220 V 230 V	I <sub>e</sub>	A	7
240 V	I <sub>e</sub>	A	7
380 V 400 V	I <sub>e</sub>	A	7
415 V	I <sub>e</sub>	A	7
440 V	I <sub>e</sub>	A	7
500 V	I <sub>e</sub>	A	6
660 V 690 V	I <sub>e</sub>	A	5
<b>Motor rating</b>			
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

<b>Rated operational current, open</b>			
<b>DC-1</b>			
60 V	I <sub>e</sub>	A	20
110 V	I <sub>e</sub>	A	20
220 V	I <sub>e</sub>	A	15
440 V	I <sub>e</sub>	A	1.3
<b>DC-3</b>			
60 V	I <sub>e</sub>	A	20
110 V	I <sub>e</sub>	A	20
220 V	I <sub>e</sub>	A	1.5
440 V	I <sub>e</sub>	A	0.2
<b>DC-5</b>			
60 V	I <sub>e</sub>	A	20
110 V	I <sub>e</sub>	A	20
220 V	I <sub>e</sub>	A	1.5
440 V	I <sub>e</sub>	A	0.2

## Current heat loss

3-pole at I <sub>th</sub>	W	2.7
Current heat loss at I <sub>e</sub> to AC-3/400 V	W	0.9
Impedance per pole	mΩ	2.5

## Magnet systems

<b>Voltage tolerance</b>			
AC operated	Pick-up	x U <sub>c</sub>	0.8 - 1.1
Drop-out voltage AC operated	Drop-out	x U <sub>c</sub>	0.3 - 0.6
DC operated	Pick-up	x U <sub>c</sub>	0.7 - 1.2
DC operated	Drop-out	x U <sub>c</sub>	0.15 - 0.6
Notes	at least smoothed two-phase bridge rectifier or three-phase rectifier		
<b>Power consumption of the coil in a cold state and 1.0 x U<sub>c</sub></b>			
50 Hz	Pick-up	VA	24
50 Hz	Sealing	VA	3.4
50 Hz	Sealing	W	1.2
60 Hz	Pick-up	VA	30
60 Hz	Sealing	VA	4.4