



Product designation	Power contactor		
Product type designation	B250		
<b>Contact characteristics</b>			
Number of poles	Nr.	4	
Rated insulation voltage Ui IEC/EN	V	1000	
Rated impulse withstand voltage Uimp	kV	8	
Operational frequency	min	Hz	25
	max	Hz	400
IEC Conventional free air thermal current Ith		A	350
Operational current Ie			
	AC-1 ( $\leq 40^{\circ}\text{C}$ )	A	350
	AC-1 ( $\leq 55^{\circ}\text{C}$ )	A	300
	AC-1 ( $\leq 70^{\circ}\text{C}$ )	A	250
	AC-3 ( $\leq 440\text{V} \leq 55^{\circ}\text{C}$ )	A	265
	AC-4 (400V)	A	115
Rated operational power AC-1 ( $T \leq 40^{\circ}\text{C}$ )			
	230V	kW	124
	400V	kW	214
	500V	kW	282
	690V	kW	380
IEC max current Ie in DC1 with $L/R \leq 1\text{ms}$ with 1 poles in series			
	75V	A	350
	110V	A	160
	220V	A	--
	330V	A	--
	460V	A	--
IEC max current Ie in DC1 with $L/R \leq 1\text{ms}$ with 2 poles in series			
	75V	A	350
	110V	A	300
	220V	A	250
	330V	A	--
	460V	A	--
IEC max current Ie in DC1 with $L/R \leq 1\text{ms}$ with 3 poles in series			
	75V	A	350
	110V	A	300
	220V	A	300
	330V	A	250
	460V	A	--
IEC max current Ie in DC1 with $L/R \leq 1\text{ms}$ with 4 poles in series			
	75V	A	350
	110V	A	300
	220V	A	300
	330V	A	300
	460V	A	250

IEC max current  $I_e$  in DC3-DC5 with  $L/R \leq 15\text{ms}$  with 1 poles in series

75V	A	280
110V	A	150
220V	A	--
330V	A	--
460V	A	--

IEC max current  $I_e$  in DC3-DC5 with  $L/R \leq 15\text{ms}$  with 2 poles in series

75V	A	280
110V	A	250
220V	A	200
330V	A	--
460V	A	--

IEC max current  $I_e$  in DC3-DC5 with  $L/R \leq 15\text{ms}$  with 3 poles in series

75V	A	280
110V	A	280
220V	A	250
330V	A	200
460V	A	--

IEC max current  $I_e$  in DC3-DC5 with  $L/R \leq 15\text{ms}$  with 4 poles in series

75V	A	280
110V	A	280
220V	A	280
330V	A	200
460V	A	200

Short-time allowable current for 10s (IEC/EN60947-1) A 2200

Protection fuse

gG (IEC)	A	400
aM (IEC)	A	250

Making capacity (RMS value) A 2750

Breaking capacity at voltage

440V	A	2500
500V	A	2250
690V	A	2200

Resistance per pole (average value)  $\text{m}\Omega$  0.2

Power dissipation per pole (average value)

I <sub>th</sub>	W	24.5
AC-3	W	12.5

Tightening torque for terminals

min	Nm	35
max	Nm	35
min	I <sub>bin</sub>	25.8
max	I <sub>bin</sub>	25.8

Tightening torque for coil terminal

min	Nm	1
max	Nm	1
min	I <sub>bin</sub>	0.74
max	I <sub>bin</sub>	0.74

Max number of wires simultaneously connectable Nr. 2

Conductor section

AWG/Kcmil	max	500 kcmil
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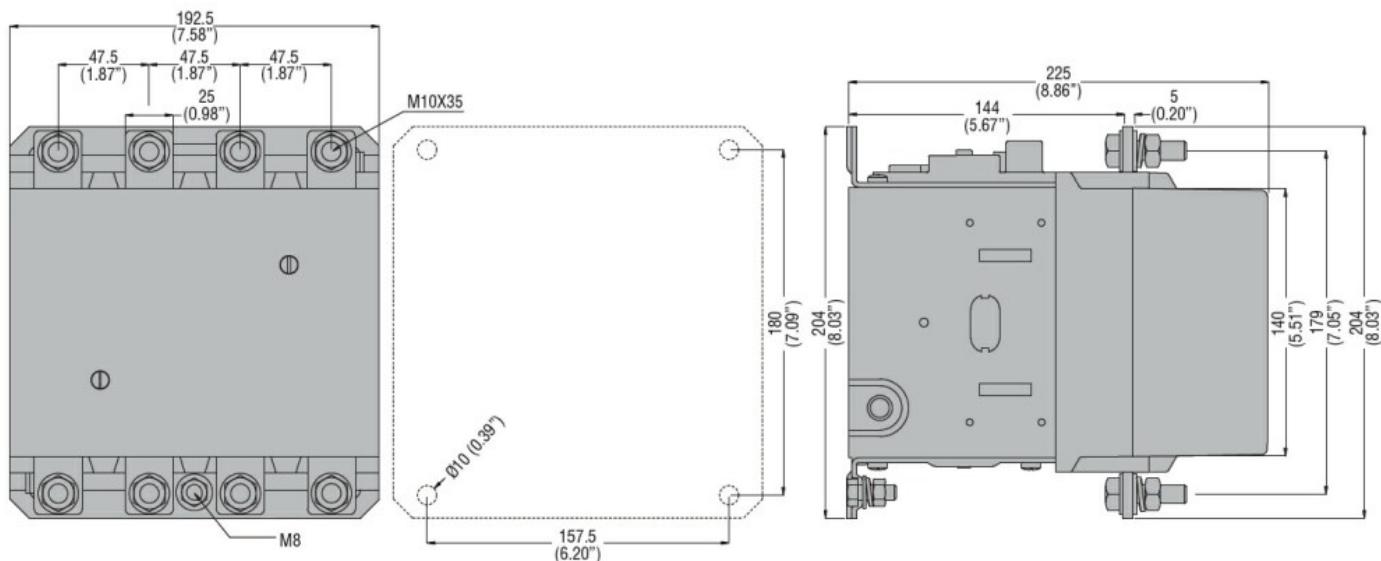
Power terminal protection according to IEC/EN 60529 IP00

Mechanical features

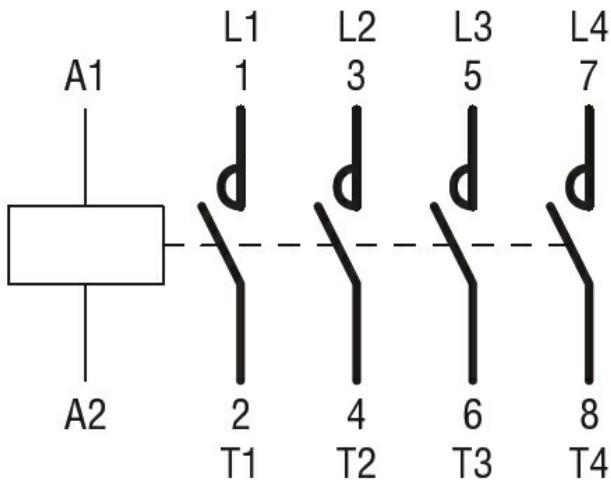
## Operating position

	normal allowable	Vertical plan ±30°
Fixing		Screw
Weight	g	1137
Operations		
Mechanical life	cycles	10000000
Electrical life	cycles	1000000
Safety related data		
Performance level B10d according to EN/ISO 13489-1		
	rated load mechanical load	cycles
		1000000
Mirror contacts according to IEC/EN 609474-4-1		cycles
		10000000
EMC compatibility		Yes
AC coil operating		yes
Rated AC voltage at 50/60Hz	V	24
AC operating voltage		
of 50/60Hz coil powered at 50Hz		
pick-up	min max	%Us %Us
		80 110
drop-out	min max	%Us %Us
		20 60
of 50/60Hz coil powered at 60Hz		
pick-up	min max	%Us %Us
		80 110
drop-out	min max	%Us %Us
		20 60
of 60Hz coil powered at 60Hz		
pick-up	min max	%Us %Us
		80 110
drop-out	min max	%Us %Us
		20 60
AC average coil consumption at 20°C		
of 50/60Hz coil powered at 50Hz		
in-rush holding	VA VA	300 10
of 50/60Hz coil powered at 60Hz		
in-rush holding	VA VA	300 10
Dissipation at holding ≤20°C 50Hz	W	10
DC coil operating		
DC rated control voltage	V	24
DC operating voltage		
pick-up	min max	%Us %Us
		80 110
drop-out		

	min	%Us	20
	max	%Us	60
Average coil consumption $\leq 20^{\circ}\text{C}$			
	in-rush	W	300
	holding	W	10
Max cycles frequency			
Mechanical operation		cycles/h	2400
Operating times			
Average time for Us control			
in AC			
Closing NO			
min	ms	80	
max	ms	120	
Opening NO			
min	ms	30	
max	ms	75	
in DC			
Closing NO			
min	ms	80	
max	ms	120	
Opening NO			
min	ms	30	
max	ms	75	
UL technical data			
Rated operational voltage AC (UL)		V	600
Full-load current (FLA) for three-phase AC motor			
	at 480V	A	240
	at 600V	A	242
Yielded mechanical performance			
for three-phase AC motor			
	200/208V	HP	75
	220/230V	HP	100
	575/600V	HP	250
General USE			
Contactor			
	AC current	A	350
Short-circuit protection fuse, 600V			
Standard fault			
	Short circuit current	kA	18
	Fuse rating	A	800
	Fuse class	L	
Ambient conditions			
Temperature			
Operating temperature			
	min	$^{\circ}\text{C}$	-50
	max	$^{\circ}\text{C}$	70
Storage temperature			
	min	$^{\circ}\text{C}$	-60
	max	$^{\circ}\text{C}$	80
Max altitude		m	3000
Resistance & Protection			
Pollution degree			3
Dimensions			



### Wiring diagrams



### Certifications and compliance

#### Compliance

CSA C22.2 n° 60947-1

CSA C22.2 n° 60947-4-1

IEC/EN 60947-1

IEC/EN 60947-4-1

UL 60947-1

UL 60947-4-1

#### Certificates

CCC

cULus

EAC

### ETIM classification

#### ETIM 8.0

EC000066 -  
Power contactor,  
AC switching