



Product designation	Power contactor		
Product type designation	B250		
Contact characteristics			
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) m? 0.2

Power dissipation per pole (average value)

I _{th}	W	24.5
AC3	W	12.5

Tightening torque for terminals

min	Nm	35
max	Nm	35
min	lbin	25.8
max	lbin	25.8

Tightening torque for coil terminal

min	Nm	1
max	Nm	1
min	lbin	0.74
max	lbin	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°
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Fixing		Screw
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Weight	g	1114
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Conductor section	AWG/kcmil conductor section	max	500 kcmil
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Operations			
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Mechanical life		cycles	10000000
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Electrical life		cycles	1000000
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Safety related data			
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Performance level B10d according to EN/ISO 13489-1			
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	rated load	cycles	1000000
	mechanical load	cycles	10000000

Mirror contacts according to IEC/EN 609474-4-1			yes
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EMC compatibility			yes
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AC coil operating			
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Rated AC voltage at 50/60Hz, 60Hz		min	V	380
		max	V	415

AC operating voltage				
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of 50/60Hz coil powered at 50Hz				
	pick-up	min	%Us	80
		max	%Us	110
	drop-out	min	%Us	20
		max	%Us	60

of 50/60Hz coil powered at 60Hz				
	pick-up	min	%Us	80
		max	%Us	110
	drop-out	min	%Us	20
		max	%Us	60

of 60Hz coil powered at 60Hz				
	pick-up	min	%Us	80
		max	%Us	110
	drop-out	min	%Us	20
		max	%Us	60

AC average coil consumption at 20°C			
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of 50/60Hz coil powered at 50Hz			
	in-rush	VA	300
	holding	VA	10

of 50/60Hz coil powered at 60Hz			
	in-rush	VA	300
	holding	VA	10

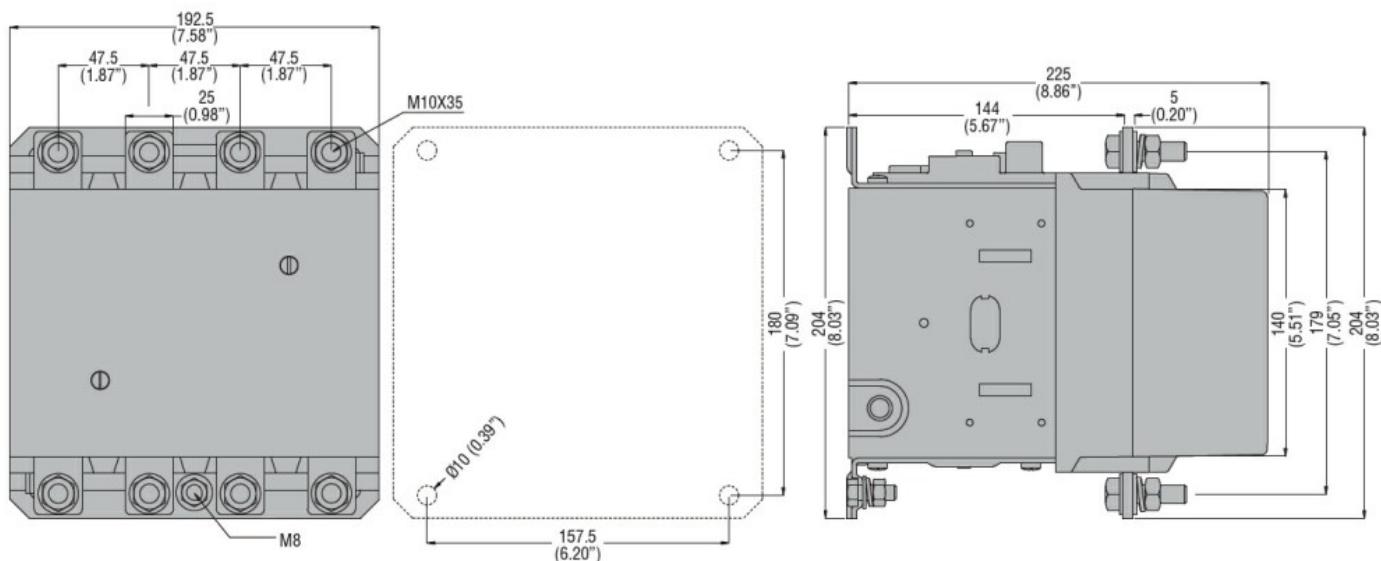
Dissipation at holding ≤20°C 50Hz		W	10
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DC coil operating			
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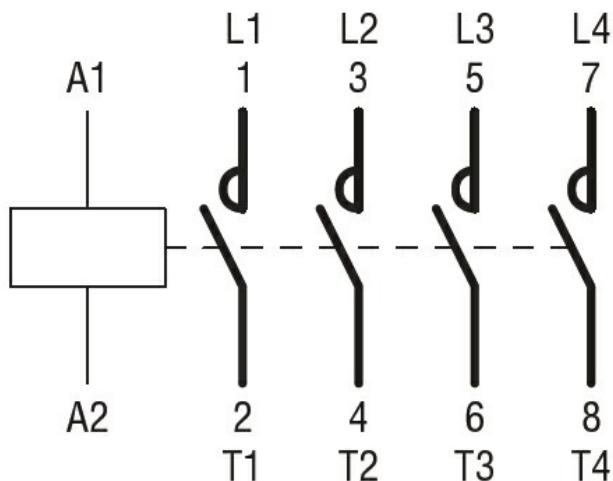
DC rated control voltage			
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		min	V	380
		max	V	415
DC operating voltage				
pick-up				
drop-out				
Average coil consumption $\leq 20^{\circ}\text{C}$				
in-rush				
holding				
Max cycles frequency				
Mechanical operation				
Operating times				
Average time for Us control				
in AC				
Closing NO				
Opening NO				
in DC				
Closing NO				
Opening NO				
UL technical data				
Full-load current (FLA) for three-phase AC motor				
at 480V				
at 600V				
Yielded mechanical performance				
for three-phase AC motor				
200/208V				
220/230V				
460/480V				
575/600V				
General USE				
Contactor				
AC current				
A				
350				
Short-circuit protection fuse, 600V				
Standard fault				
Short circuit current				
Fuse rating				
Fuse class				
Ambient conditions				
Temperature				
Operating temperature				
min				
°C				
-50				
max				
°C				
70				
Storage temperature				

	min	°C	-60
	max	°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