



Product designation	Power contactor		
Product type designation	B250		
<b>Contact characteristics</b>			
Number of poles	Nr.	4	
Rated insulation voltage U <sub>i</sub> IEC/EN	V	1000	
Rated impulse withstand voltage U <sub>imp</sub>	kV	8	
Operational frequency	min	Hz	25
	max	Hz	400
IEC Conventional free air thermal current I <sub>th</sub>	A	350	
Operational current I <sub>e</sub>	AC-1 (≤40°C)	A	350
	AC-1 (≤55°C)	A	300
	AC-1 (≤70°C)	A	250
	AC-3 (≤440V ≤55°C)	A	265
	AC-4 (400V)	A	115
Rated operational power AC-1 (T≤40°C)	230V	kW	124
	400V	kW	214
	500V	kW	282
	690V	kW	380
IEC max current I <sub>e</sub> in DC1 with L/R ≤ 1ms with 1 poles in series	75V	A	350
	110V	A	160
	220V	A	--
	330V	A	--
	460V	A	--
IEC max current I <sub>e</sub> in DC1 with L/R ≤ 1ms with 2 poles in series	75V	A	350
	110V	A	300
	220V	A	250
	330V	A	--
	460V	A	--
IEC max current I <sub>e</sub> in DC1 with L/R ≤ 1ms with 3 poles in series	75V	A	350
	110V	A	300
	220V	A	300
	330V	A	250
	460V	A	--
IEC max current I <sub>e</sub> in DC1 with L/R ≤ 1ms with 4 poles in series	75V	A	350
	110V	A	300
	220V	A	300
	330V	A	300
	460V	A	250

IEC max current I<sub>e</sub> in DC3-DC5 with L/R ≤ 15ms with 1 poles in series

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

IEC max current I<sub>e</sub> in DC3-DC5 with L/R ≤ 15ms with 2 poles in series

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

IEC max current I<sub>e</sub> in DC3-DC5 with L/R ≤ 15ms with 3 poles in series

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

IEC max current I<sub>e</sub> in DC3-DC5 with L/R ≤ 15ms 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
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Protection fuse

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

Making capacity (RMS value)

A	2750
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Breaking capacity at voltage

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

Resistance per pole (average value)

mΩ	0.2
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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
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Conductor section

AWG/Kcmil

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

IP00
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**Mechanical features**

Operating position

	normal allowable	Vertical plan ±30°
Fixing		Screw
Weight	g	1140
Conductor section	AWG/kcmil conductor section	
	max	500 kcmil

**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
		cycles	10000000
Mirror contats according to IEC/EN 609474-4-1			yes
EMC compatibility			yes

**AC coil operating**

Rated AC voltage at 50/60Hz, 60Hz

	min	V	220
	max	V	240

AC operating voltage

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

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**

DC rated control voltage

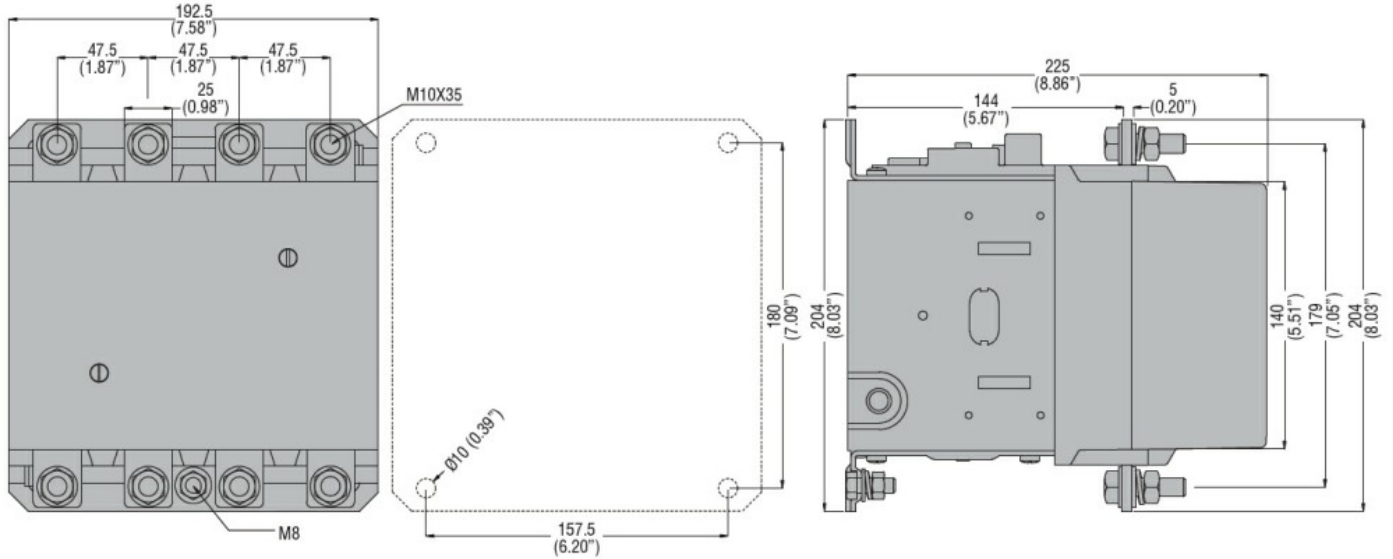
		min	V	220
		max	V	240
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DC operating voltage				
	pick-up	min	%Us	80
		max	%Us	110
	drop-out	min	%Us	20
		max	%Us	60
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Average coil consumption $\leq 20^{\circ}\text{C}$		in-rush	W	300
		holding	W	10
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<b>Max cycles frequency</b>				
Mechanical operation			cycles/h	2400
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<b>Operating times</b>				
Average time for $U_s$ control				
	in AC			
		Closing NO	min	ms
			max	ms
		Opening NO	min	ms
			max	ms
	in DC			
		Closing NO	min	ms
			max	ms
		Opening NO	min	ms
			max	ms
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<b>UL technical data</b>				
Full-load current (FLA) for three-phase AC motor		at 480V	A	240
		at 600V	A	242
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Yielded mechanical performance				
	for three-phase AC motor			
		200/208V	HP	75
		220/230V	HP	100
		575/600V	HP	250
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General USE				
	Contactor			
		AC current	A	350
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Short-circuit protection fuse, 600V				
	Standard fault			
		Short circuit current	kA	18
		Fuse rating	A	800
		Fuse class		L
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<b>Ambient conditions</b>				
Temperature				
	Operating temperature	min	$^{\circ}\text{C}$	-50
		max	$^{\circ}\text{C}$	70
	Storage temperature	min	$^{\circ}\text{C}$	-60

	max	°C	80
Max altitude		m	3000

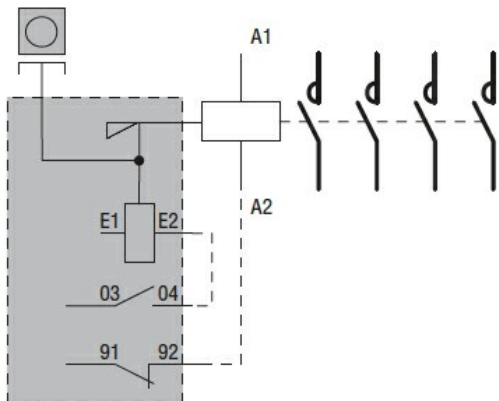
**Resistance & Protection**

Pollution degree	3
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**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
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