



Product designation	Power contactor		
Product type designation	B250		
<b>Contact characteristics</b>			
Number of poles	Nr. 3		
Rated insulation voltage $U_i$ IEC/EN	V 1000		
Rated impulse withstand voltage $U_{imp}$	kV 8		
Operational frequency	min	Hz	25
	max	Hz	400
IEC Conventional free air thermal current $I_{th}$	A 350		
Operational current $I_e$			
	AC-1 ( $\leq 40^\circ C$ )	A	350
	AC-1 ( $\leq 55^\circ C$ )	A	300
	AC-1 ( $\leq 70^\circ C$ )	A	250
	AC-3 ( $\leq 440V \leq 55^\circ C$ )	A	265
	AC-4 (400V)	A	115
Rated operational power AC-3 ( $T \leq 55^\circ C$ )	400V	kW	140
Rated operational power AC-1 ( $T \leq 40^\circ C$ )	230V	kW	124
	400V	kW	214
	500V	kW	282
	690V	kW	380
IEC max current $I_e$ in DC1 with $L/R \leq 1ms$ with 1 poles in series	75V	A	350
	110V	A	160
	220V	A	--
	330V	A	--
	460V	A	--
IEC max current $I_e$ in DC1 with $L/R \leq 1ms$ with 2 poles in series	75V	A	350
	110V	A	300
	220V	A	250
	330V	A	--
	460V	A	--
IEC max current $I_e$ in DC1 with $L/R \leq 1ms$ with 3 poles in series	75V	A	350
	110V	A	300
	220V	A	300
	330V	A	250
	460V	A	--
IEC max current $I_e$ in DC1 with $L/R \leq 1ms$ with 4 poles in series	75V	A	350
	110V	A	300
	220V	A	300

	330V	A	300
	460V	A	250
IEC max current le 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 le 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 le 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 le 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
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 <sub>th</sub>	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

Power terminal protection according to IEC/EN 60529	IP00					
<b>Mechanical features</b>						
Operating position						
Fixing	normal allowable	Vertical plan ±30°				
Weight		Screw	g 1040			
Conductor section						
AWG/kcmil conductor section	max	500 kcmil				
<b>Operations</b>						
Mechanical life	cycles	10000000				
Electrical life	cycles	1000000				
<b>Safety related data</b>						
Performance level B10d according to EN/ISO 13489-1	rated load mechanical load	cycles	1000000 10000000			
Mirror contacts according to IEC/EN 609474-4-1		yes				
<b>EMC compatibility</b>						
<b>AC coil operating</b>						
Rated AC voltage at 50/60Hz, 60Hz	min max	V V	220 240			
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**

min	V	220
max	V	240

**DC operating voltage**
**pick-up**

min	%Us	80
max	%Us	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**
**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
460/480V	HP	200
575/600V	HP	250

**General USE**
**Contactor**

AC current	A	350
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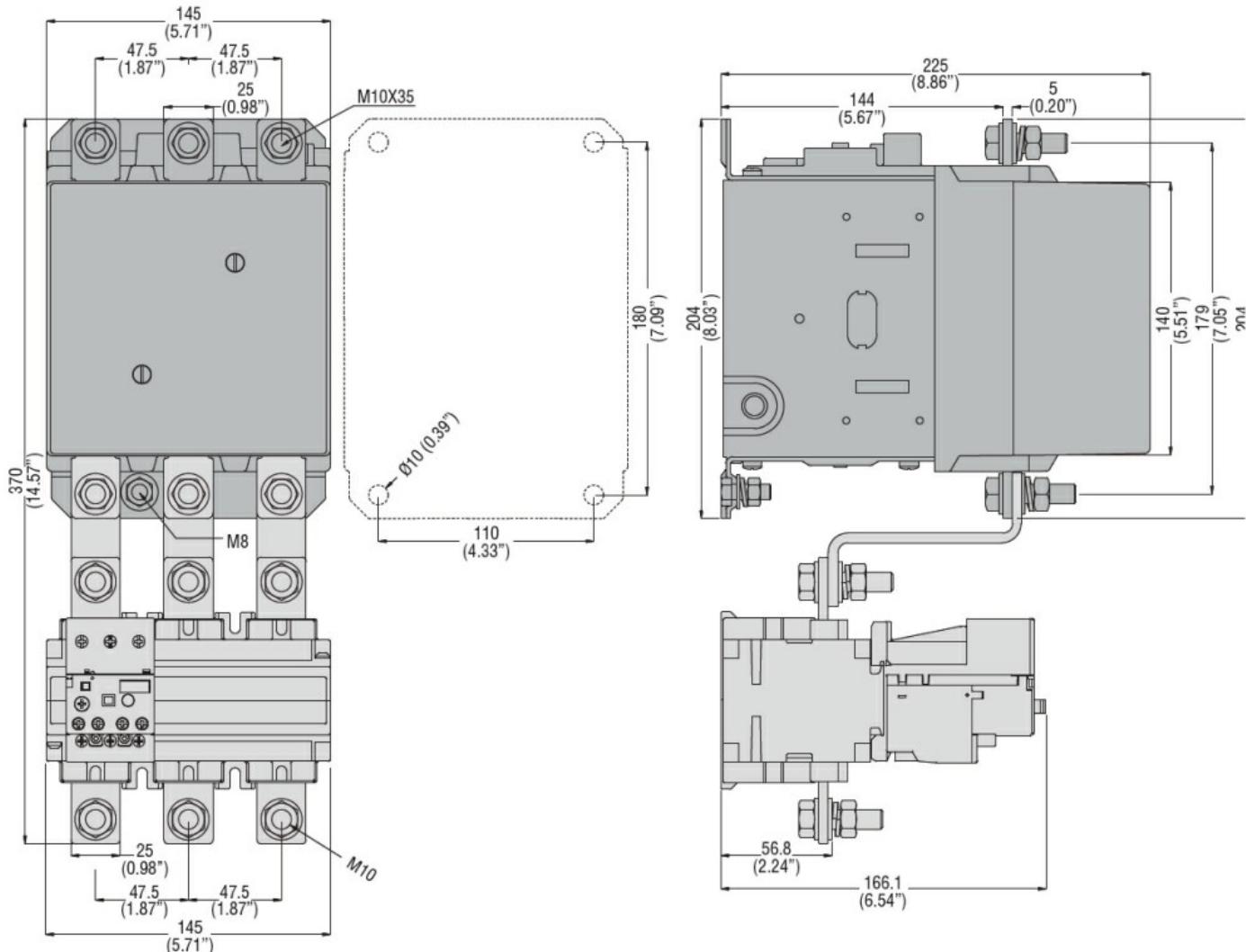
**Short-circuit protection fuse, 600V**
**Standard fault**

Short circuit current	kA	18
Fuse rating	A	800
Fuse class	L	

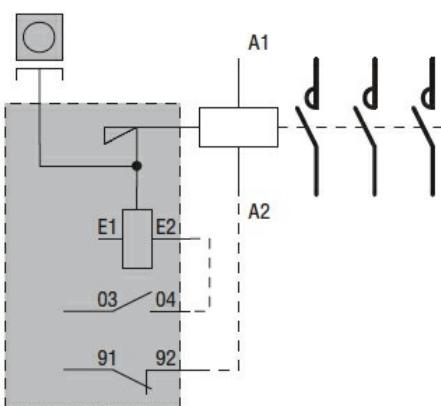
**Ambient conditions**
**Temperature**
**Operating temperature**

min	°C	-50
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	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