



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 ( $\leq 40^\circ\text{C}$ )	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-3 ( $T \leq 55^\circ\text{C}$ )	400V	kW	140
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 $I_e$ 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 $I_e$ 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 $I_e$ 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 $I_e$ 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 <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
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)		mΩ	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	

Power terminal protection according to IEC/EN 60529				IP00
<b>Mechanical features</b>				
Operating position	normal allowable	Vertical plan ±30°		
Fixing				Screw
Weight	g			9500
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	cycles	1000000 10000000
Mirror contacts according to IEC/EN 60947-4-1				yes
EMC compatibility				yes
<b>AC coil operating</b>				
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

**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 ≤20°C			
	in-rush	W	300
	holding	W	10

**Max cycles frequency**

Mechanical operation	cycles/h	2400
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**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
	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	°C	-50
	max	°C	70

Storage temperature

min	°C	-60
max	°C	80

Max altitude

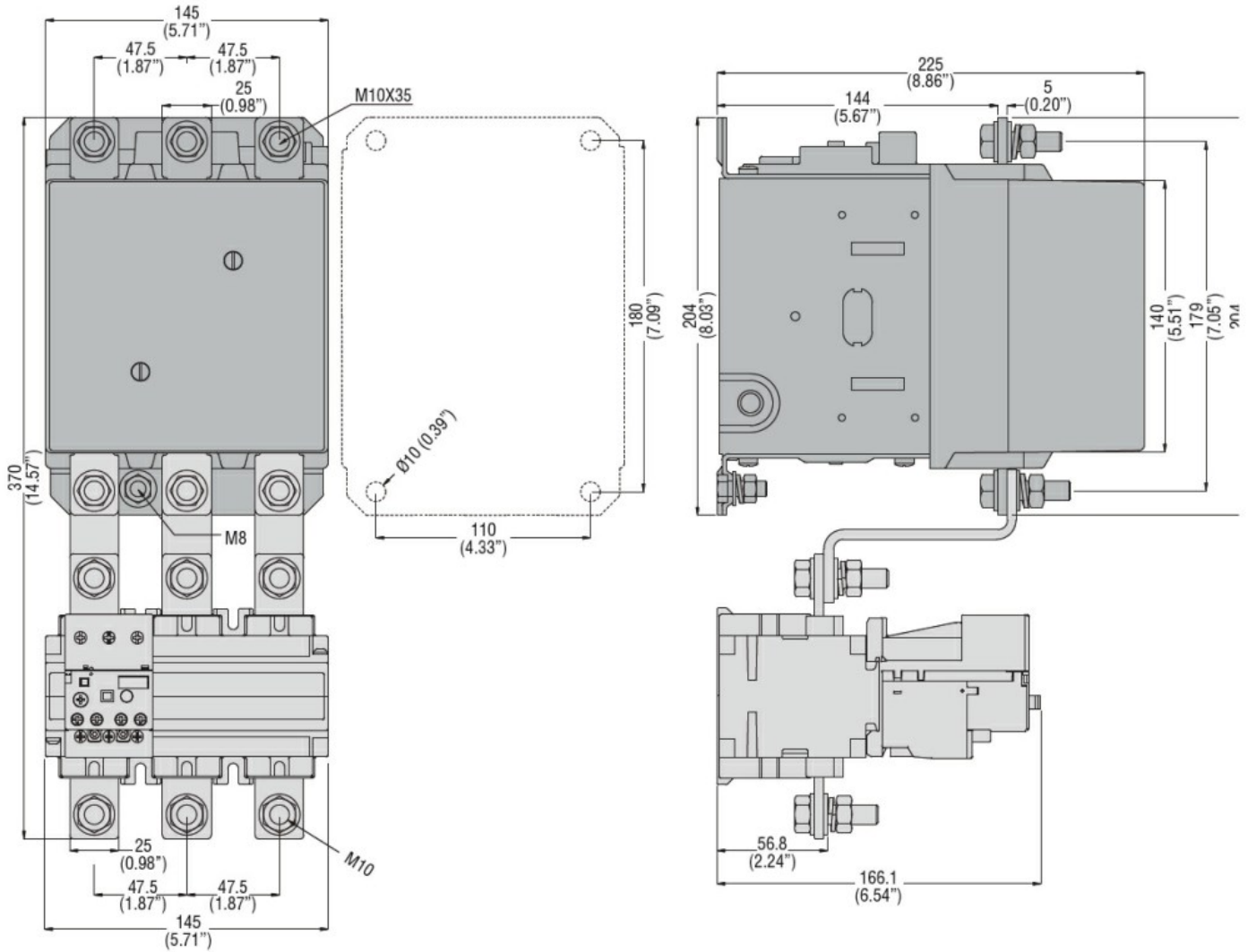
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**Resistance & Protection**

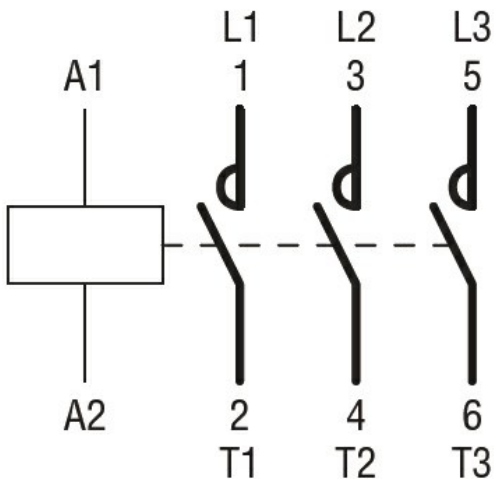
Pollution degree

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