



Product designation	Power contactor		
Product type designation	B400		
<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	550
Operational current Ie			
	AC-1 ( $\leq 40^{\circ}\text{C}$ )	A	550
	AC-1 ( $\leq 55^{\circ}\text{C}$ )	A	430
	AC-1 ( $\leq 70^{\circ}\text{C}$ )	A	360
	AC-3 ( $\leq 440\text{V} \leq 55^{\circ}\text{C}$ )	A	420
	AC-4 (400V)	A	200
Rated operational power AC-1 ( $T \leq 40^{\circ}\text{C}$ )			
	230V	kW	200
	400V	kW	345
	500V	kW	452
	690V	kW	598
IEC max current Ie in DC1 with $L/R \leq 1\text{ms}$ with 1 poles in series			
	75V	A	400
	110V	A	250
	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	400
	110V	A	400
	220V	A	350
	330V	A	--
	460V	A	--
IEC max current Ie in DC1 with $L/R \leq 1\text{ms}$ with 3 poles in series			
	75V	A	400
	110V	A	400
	220V	A	400
	330V	A	350
	460V	A	--
IEC max current Ie in DC1 with $L/R \leq 1\text{ms}$ with 4 poles in series			
	75V	A	400
	110V	A	400
	220V	A	400
	330V	A	400
	460V	A	350

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

75V	A	350
110V	A	200
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	350
110V	A	350
220V	A	280
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	350
110V	A	350
220V	A	350
330V	A	280
460V	A	--

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

75V	A	350
110V	A	350
220V	A	350
330V	A	280
460V	A	280

Short-time allowable current for 10s (IEC/EN60947-1) A 3600

Protection fuse

gG (IEC)	A	630
aM (IEC)	A	400

Making capacity (RMS value) A 4200

Breaking capacity at voltage

440V	A	4000
500V	A	3400
690V	A	3360

Resistance per pole (average value) m? 0.2

Power dissipation per pole (average value)

I <sub>th</sub>	W	52
AC3	W	32

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 2x 300 kcmil

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	2x 300 kcmil
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<b>Operations</b>		
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Mechanical life	cycles	10000000
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Electrical life	cycles	700000
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<b>Safety related data</b>		
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Performance level B10d according to EN/ISO 13489-1	rated load	cycles	700000
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mechanical load	cycles	10000000
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Mirror contacts according to IEC/EN 609474-4-1		yes
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EMC compatibility		yes
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<b>AC coil operating</b>		
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Rated AC voltage at 50/60Hz, 60Hz	min	V	440
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max	V	480
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<b>AC operating voltage</b>		
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of 50/60Hz coil powered at 50Hz		
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pick-up	min	%Us	80
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max	%Us	110
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drop-out	min	%Us	20
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max	%Us	60
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of 50/60Hz coil powered at 60Hz		
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pick-up	min	%Us	80
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max	%Us	110
-----	-----	-----

drop-out	min	%Us	20
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max	%Us	60
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of 60Hz coil powered at 60Hz		
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pick-up	min	%Us	80
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max	%Us	110
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drop-out	min	%Us	20
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max	%Us	60
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<b>AC average coil consumption at 20°C</b>		
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of 50/60Hz coil powered at 50Hz		
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in-rush	VA	300
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holding	VA	10
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of 50/60Hz coil powered at 60Hz		
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in-rush	VA	300
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holding	VA	10
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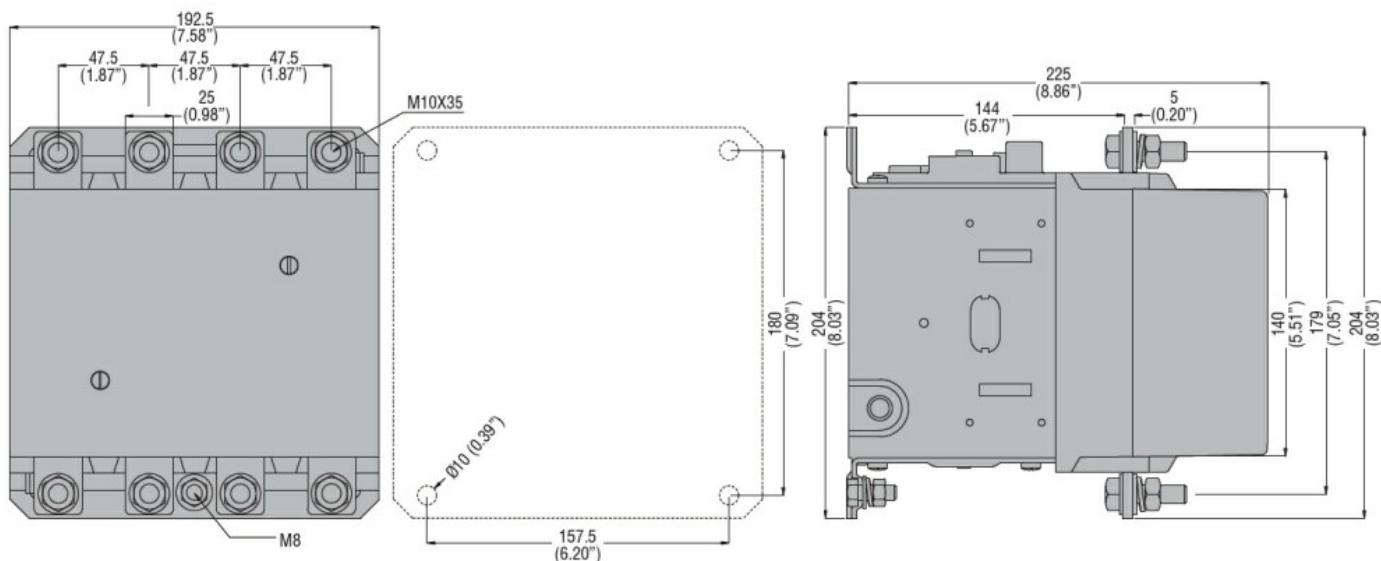
Dissipation at holding ≤20°C 50Hz		W	10
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<b>DC coil operating</b>		
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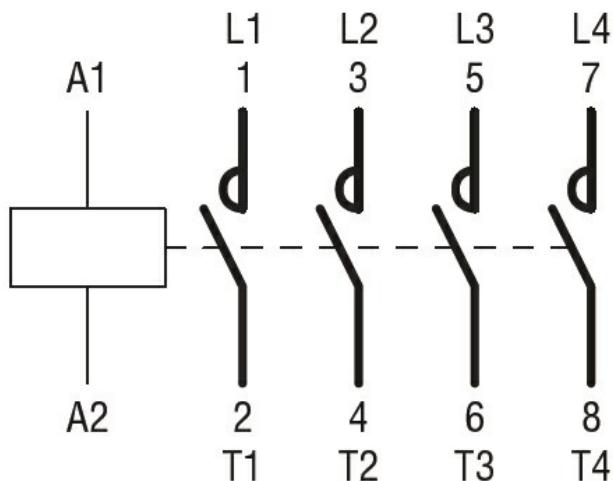
DC rated control voltage		
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		min	V	440
		max	V	480
<b>DC operating voltage</b>				
pick-up		min	%Us	80
		max	%Us	110
drop-out		min	%Us	20
		max	%Us	60
Average coil consumption $\leq 20^{\circ}\text{C}$				
	in-rush	W	300	
	holding	W	10	
<b>Max cycles frequency</b>				
Mechanical operation			cycles/h	2400
<b>Operating times</b>				
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
<b>UL technical data</b>				
Full-load current (FLA) for three-phase AC motor		at 480V	A	414
		at 600V	A	382
Yielded mechanical performance				
for three-phase AC motor				
200/208V	HP	125		
220/230V	HP	150		
460/480V	HP	350		
575/600V	HP	400		
<b>General USE</b>				
Contactor		AC current	A	550
Short-circuit protection fuse, 600V				
Standard fault		Short circuit current	kA	18
		Fuse rating	A	800
		Fuse class	L	
<b>Ambient conditions</b>				
Temperature				
Operating temperature		min	°C	-50
		max	°C	70
<b>Storage temperature</b>				

	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