



Product designation				Power contactor
Product type designation				B400
<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			550
Operational current I <sub>e</sub>	AC-1 (≤40°C)	A	550	
	AC-1 (≤55°C)	A	430	
	AC-1 (≤70°C)	A	360	
	AC-3 (≤440V ≤55°C)	A	420	
	AC-4 (400V)	A	200	
Rated operational power AC-1 (T≤40°C)	230V	kW	200	
	400V	kW	345	
	500V	kW	452	
	690V	kW	598	
IEC max current I <sub>e</sub> in DC1 with L/R ≤ 1ms with 1 poles in series	75V	A	400	
	110V	A	250	
	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	400	
	110V	A	400	
	220V	A	350	
	330V	A	--	
	460V	A	--	
IEC max current I <sub>e</sub> in DC1 with L/R ≤ 1ms with 3 poles in series	75V	A	400	
	110V	A	400	
	220V	A	400	
	330V	A	350	
	460V	A	--	
IEC max current I <sub>e</sub> in DC1 with L/R ≤ 1ms with 4 poles in series	75V	A	400	
	110V	A	400	
	220V	A	400	
	330V	A	400	
	460V	A	350	

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

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

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

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

Making capacity (RMS value)

A	4200
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Breaking capacity at voltage

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

Resistance per pole (average value)

mΩ	0.2
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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	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	2x 300 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	1110
Conductor section	AWG/kcmil conductor section	
	max	2x 300 kcmil

**Operations**

Mechanical life	cycles	10000000
Electrical life	cycles	700000

**Safety related data**

Performance level B10d according to EN/ISO 13489-1	rated load mechanical load	cycles	700000
		cycles	10000000
Mirror contacts according to IEC/EN 60947-4-1			yes
EMC compatibility			yes

**AC coil operating**

Rated AC voltage at 50/60Hz	V	24
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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	V	24
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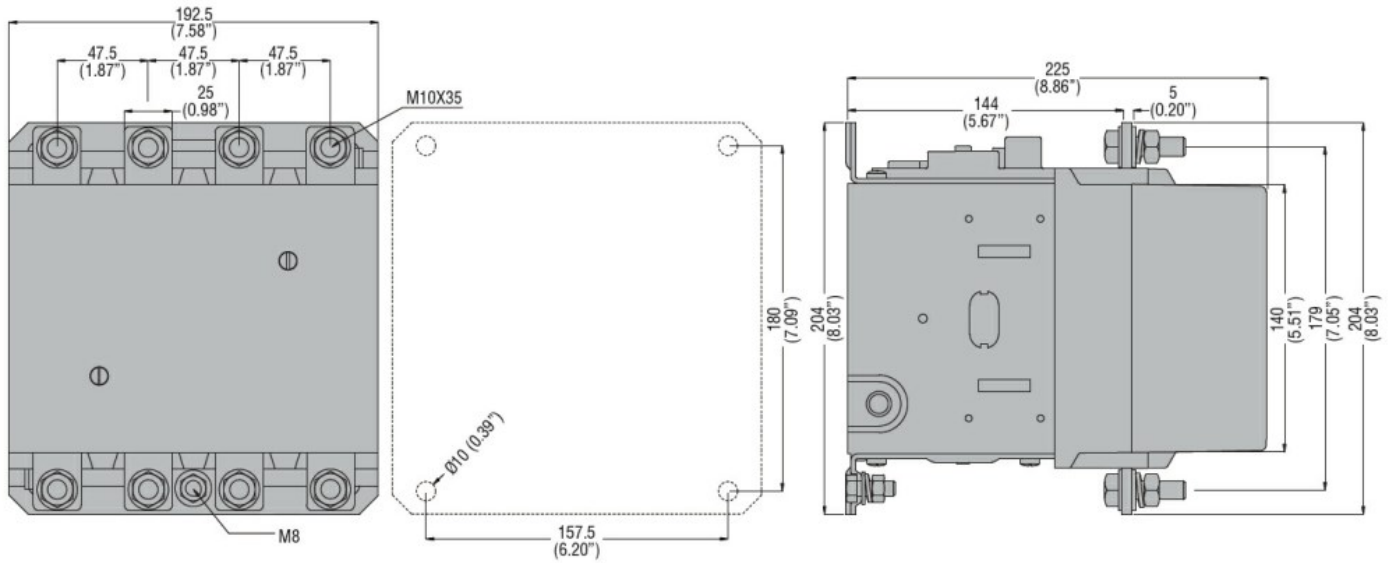
DC operating voltage		
pick-up		

		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
<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
General USE				
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
Storage temperature				
		min	°C	-60
		max	°C	80
Max altitude				
			m	3000
<b>Resistance &amp; Protection</b>				

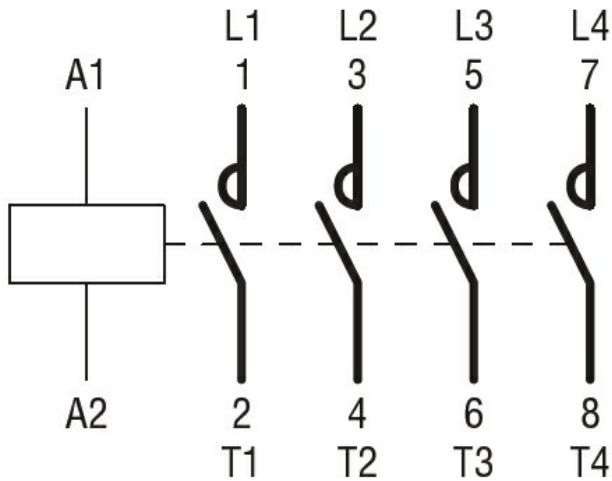
Pollution degree

3

Dimensions [mm (in)]



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



Product designation				Power contactor
Product type designation				B400
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Rated impulse withstand voltage U <sub>imp</sub>	kV			8
Operational frequency	min	Hz	25	
	max	Hz	400	
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Operational current I <sub>e</sub>	AC-1 (≤40°C)	A	550	
	AC-1 (≤55°C)	A	430	
	AC-1 (≤70°C)	A	360	
	AC-3 (≤440V ≤55°C)	A	420	
	AC-4 (400V)	A	200	
Rated operational power AC-1 (T≤40°C)	230V	kW	200	
	400V	kW	345	
	500V	kW	452	
	690V	kW	598	
IEC max current I <sub>e</sub> in DC1 with L/R ≤ 1ms with 1 poles in series	75V	A	400	
	110V	A	250	
	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	400	
	110V	A	400	
	220V	A	350	
	330V	A	--	
	460V	A	--	
IEC max current I <sub>e</sub> in DC1 with L/R ≤ 1ms with 3 poles in series	75V	A	400	
	110V	A	400	
	220V	A	400	
	330V	A	350	
	460V	A	--	
IEC max current I <sub>e</sub> in DC1 with L/R ≤ 1ms with 4 poles in series	75V	A	400	
	110V	A	400	
	220V	A	400	
	330V	A	400	
	460V	A	350	

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

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

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

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

Making capacity (RMS value)

A	4200
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Breaking capacity at voltage

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

Resistance per pole (average value)

mΩ	0.2
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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	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	2x 300 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	11
Conductor section	AWG/kcmil conductor section	
	max	2x 300 kcmil

**Operations**

Mechanical life	cycles	10000000
Electrical life	cycles	700000

**Safety related data**

Performance level B10d according to EN/ISO 13489-1	rated load mechanical load	cycles cycles	700000 10000000
Mirror contacts according to IEC/EN 60947-4-1			yes
EMC compatibility			yes

**AC coil operating**

Rated AC voltage at 50/60Hz	V	48
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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	V	48
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DC operating voltage		
pick-up		

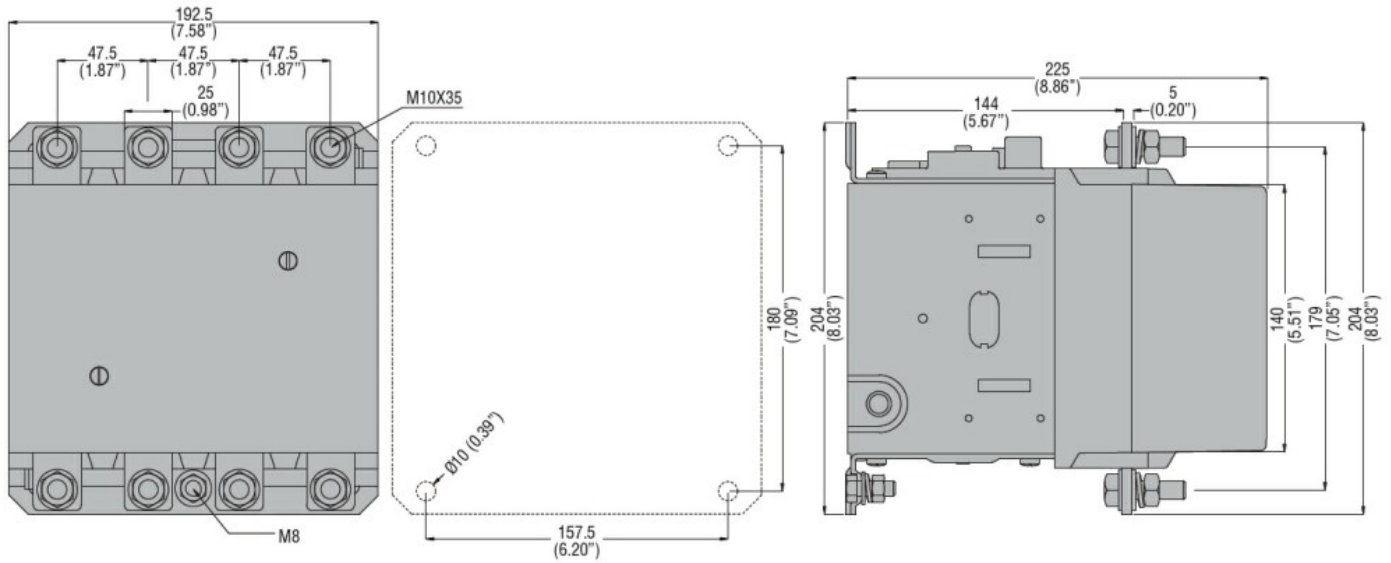


		min	%Us	80
		max	%Us	110
drop-out				
		min	%Us	20
		max	%Us	60
Average coil consumption ≤20°C				
		in-rush	W	300
		holding	W	10
<b>Max cycles frequency</b>				
Mechanical operation				cycles/h 2400
<b>Operating times</b>				
Average time for Us control				
in AC				
Closing NO				
		min	ms	80
		max	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
General USE				
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
Storage temperature				
		min	°C	-60
		max	°C	80
Max altitude				m 3000
<b>Resistance &amp; Protection</b>				

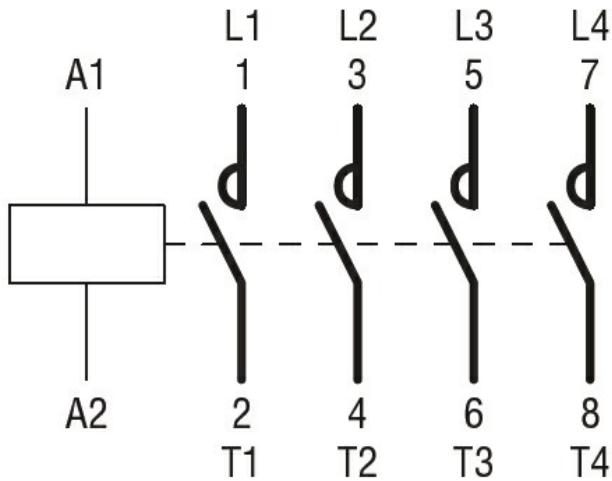
Pollution degree

3

**Dimensions [mm (in)]**



**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



Product designation				Power contactor
Product type designation				B400
<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			550
Operational current I <sub>e</sub>	AC-1 (≤40°C)	A	550	
	AC-1 (≤55°C)	A	430	
	AC-1 (≤70°C)	A	360	
	AC-3 (≤440V ≤55°C)	A	420	
	AC-4 (400V)	A	200	
Rated operational power AC-1 (T≤40°C)	230V	kW	200	
	400V	kW	345	
	500V	kW	452	
	690V	kW	598	
IEC max current I <sub>e</sub> in DC1 with L/R ≤ 1ms with 1 poles in series	75V	A	400	
	110V	A	250	
	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	400	
	110V	A	400	
	220V	A	350	
	330V	A	--	
	460V	A	--	
IEC max current I <sub>e</sub> in DC1 with L/R ≤ 1ms with 3 poles in series	75V	A	400	
	110V	A	400	
	220V	A	400	
	330V	A	350	
	460V	A	--	
IEC max current I <sub>e</sub> in DC1 with L/R ≤ 1ms with 4 poles in series	75V	A	400	
	110V	A	400	
	220V	A	400	
	330V	A	400	
	460V	A	350	

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

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

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

mΩ	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	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	2x 300 kcmil
-----	--------------

Power terminal protection according to IEC/EN 60529

IP00
------

### Mechanical features

Operating position

	normal allowable	Vertical plan ±30°
Fixing		Screw
Weight	g	11
Conductor section	AWG/kcmil conductor section	
	max	2x 300 kcmil

**Operations**

Mechanical life	cycles	10000000
Electrical life	cycles	700000

**Safety related data**

Performance level B10d according to EN/ISO 13489-1	rated load mechanical load	cycles	700000
		cycles	10000000
Mirror contacts according to IEC/EN 60947-4-1			yes
EMC compatibility			yes

**AC coil operating**

Rated AC voltage at 50/60Hz	V	60
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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	V	60
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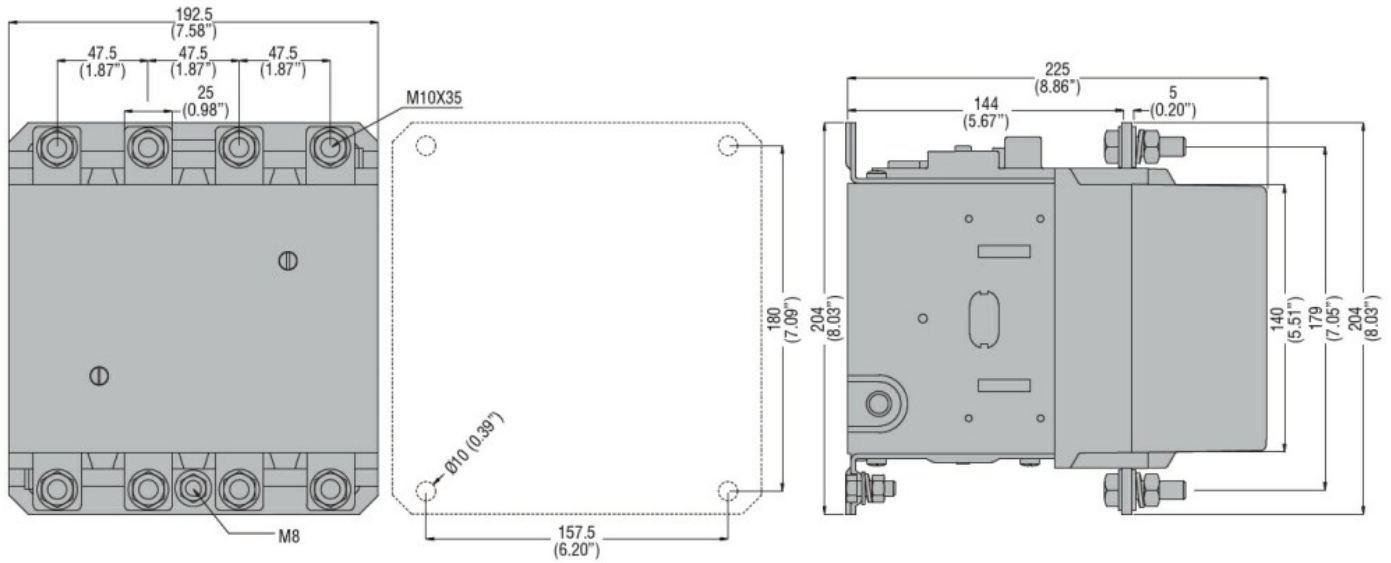
DC operating voltage		
pick-up		

		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
<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
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Yielded mechanical performance				
	for three-phase AC motor			
		200/208V	HP	125
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General USE				
	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
	Storage temperature			
		min	°C	-60
		max	°C	80
Max altitude				m 3000
<b>Resistance &amp; Protection</b>				

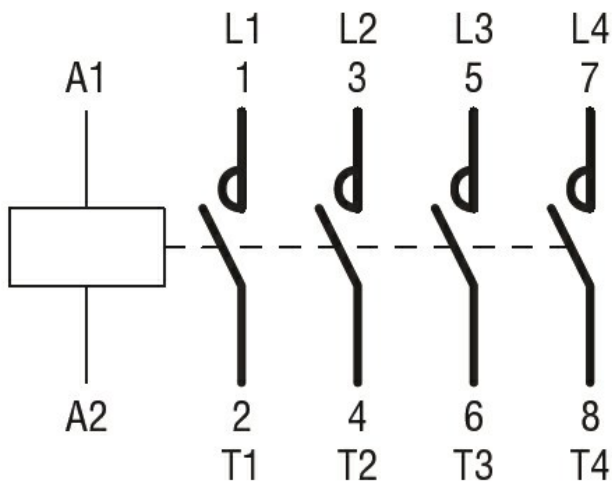
Pollution degree

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Dimensions [mm (in)]



Wiring diagrams



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AC switching



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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			550
Operational current $I_e$	AC-1 ( $\leq 40^\circ\text{C}$ )	A	550	
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	AC-1 ( $\leq 70^\circ\text{C}$ )	A	360	
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	400V	kW	345	
	500V	kW	452	
	690V	kW	598	
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	110V	A	250	
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	330V	A	--	
	460V	A	--	
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	220V	A	350	
	330V	A	--	
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	110V	A	400	
	220V	A	400	
	330V	A	350	
	460V	A	--	
IEC max current $I_e$ 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<sub>e</sub> in DC3-DC5 with L/R ≤ 15ms with 1 poles in series

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

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

mΩ	0.2
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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	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	2x 300 kcmil
-----	--------------

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	1126

Conductor section	AWG/kcmil conductor section	max	2x 300 kcmil
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**Operations**

Mechanical life	cycles	10000000
Electrical life	cycles	700000

**Safety related data**

Performance level B10d according to EN/ISO 13489-1	rated load mechanical load	cycles	700000
		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	110
	max	V	125

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		
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		min	V	110
		max	V	125
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
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**Operating times**

Average time for Us 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

**UL technical data**

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

General USE				
	Contactor			
		AC current	A	550

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	$^{\circ}\text{C}$	-50
		max	$^{\circ}\text{C}$	70
	Storage temperature			

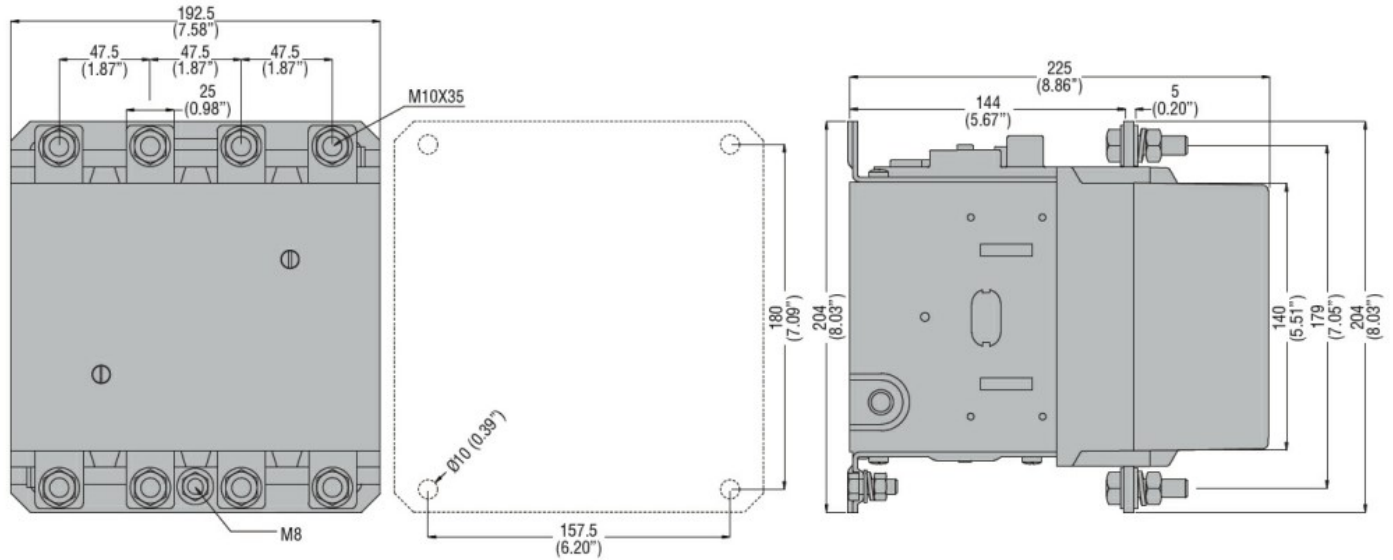
min	°C	-60
max	°C	80
Max altitude	m	3000

**Resistance & Protection**

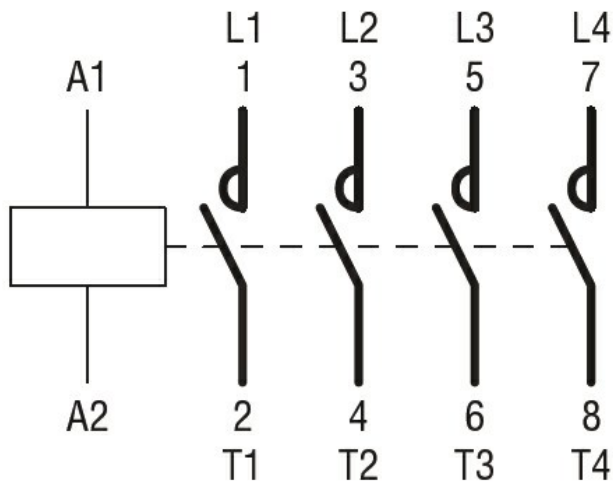
Pollution degree

3

**Dimensions [mm (in)]**



**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



Product designation				Power contactor
Product type designation				B400
<b>Contact characteristics</b>				
Number of poles	Nr.			4
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			550
Operational current $I_e$	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 $I_e$ 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 $I_e$ 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 $I_e$ 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 $I_e$ 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<sub>e</sub> in DC3-DC5 with L/R ≤ 15ms with 1 poles in series

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

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

mΩ	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	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	2x 300 kcmil
-----	--------------

Power terminal protection according to IEC/EN 60529

IP00
------

### Mechanical features

Operating position

	normal allowable	Vertical plan ±30°
Fixing		Screw
Weight	g	1112
Conductor section	AWG/kcmil conductor section	
	max	2x 300 kcmil

**Operations**

Mechanical life	cycles	10000000
Electrical life	cycles	700000

**Safety related data**

Performance level B10d according to EN/ISO 13489-1	rated load mechanical load	cycles	700000
		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

**DC coil operating**

DC rated control voltage			
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		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

<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

General USE			
	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	$^{\circ}\text{C}$	-50
	max	$^{\circ}\text{C}$	70
Storage temperature			

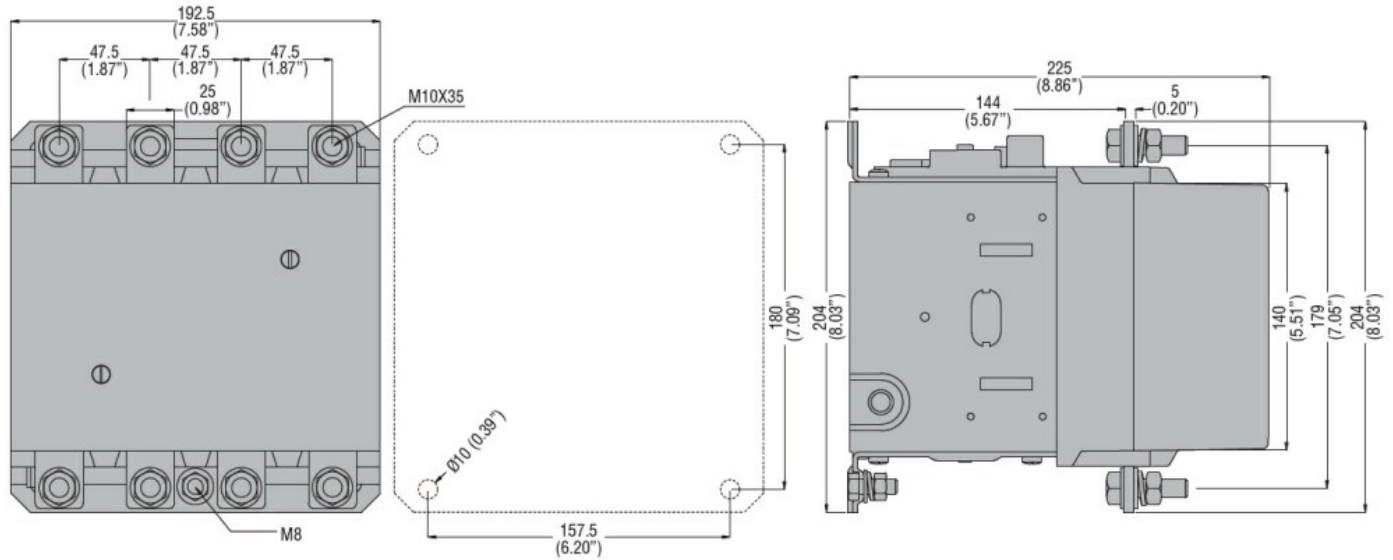
min	°C	-60
max	°C	80
Max altitude	m	3000

**Resistance & Protection**

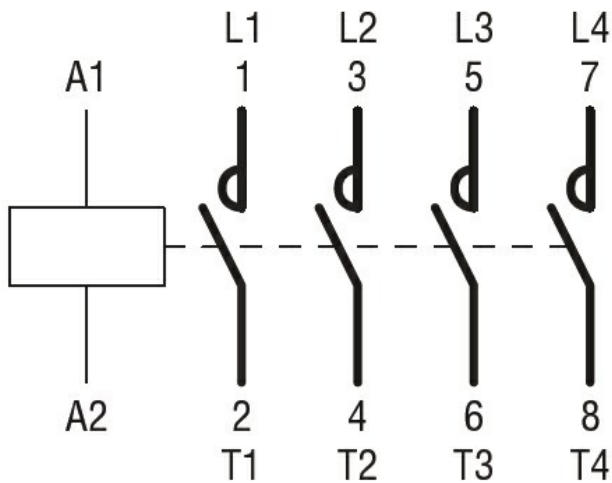
Pollution degree

3

**Dimensions [mm (in)]**



**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



Product designation Power contactor  
Product type designation B400

**Contact characteristics**

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	550
Operational current I <sub>e</sub>	AC-1 (≤40°C)	A 550
	AC-1 (≤55°C)	A 430
	AC-1 (≤70°C)	A 360
	AC-3 (≤440V ≤55°C)	A 420
	AC-4 (400V)	A 200
Rated operational power AC-1 (T≤40°C)	230V	kW 200
	400V	kW 345
	500V	kW 452
	690V	kW 598
IEC max current I <sub>e</sub> in DC1 with L/R ≤ 1ms with 1 poles in series	75V	A 400
	110V	A 250
	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 400
	110V	A 400
	220V	A 350
	330V	A --
	460V	A --
IEC max current I <sub>e</sub> in DC1 with L/R ≤ 1ms with 3 poles in series	75V	A 400
	110V	A 400
	220V	A 400
	330V	A 350
	460V	A --
IEC max current I <sub>e</sub> in DC1 with L/R ≤ 1ms 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)

mΩ	0.2
----	-----

Power dissipation per pole (average value)

$I_{th}$	W	52
AC3	W	32

Tightening torque for terminals

min	Nm	35
max	Nm	35
min	$I_{bin}$	25.8
max	$I_{bin}$	25.8

Tightening torque for coil terminal

min	Nm	1
max	Nm	1
min	$I_{bin}$	0.74
max	$I_{bin}$	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°
Fixing		Screw
Weight	g	1114
Conductor section	AWG/kcmil conductor section	
	max	2x 300 kcmil

**Operations**

Mechanical life	cycles	10000000
Electrical life	cycles	700000

**Safety related data**

Performance level B10d according to EN/ISO 13489-1

	rated load mechanical load	cycles cycles	700000 10000000
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Mirror contacts according to IEC/EN 60947-4-1

EMC compatibility

**AC coil operating**

Rated AC voltage at 50/60Hz, 60Hz

	min	V	380
	max	V	415

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	380
		max	V	415
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
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**Operating times**

Average time for Us 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

**UL technical data**

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

General USE				
	Contactor			
		AC current	A	550

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	$^{\circ}\text{C}$	-50
		max	$^{\circ}\text{C}$	70

Storage temperature				
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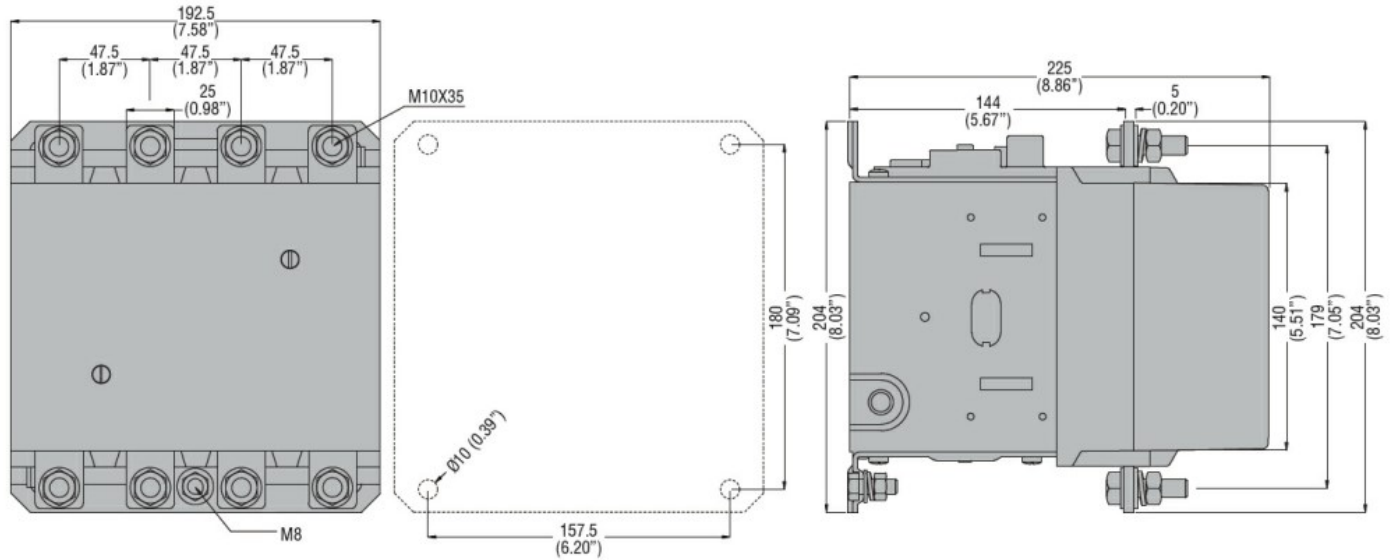
min	°C	-60
max	°C	80
Max altitude	m	3000

**Resistance & Protection**

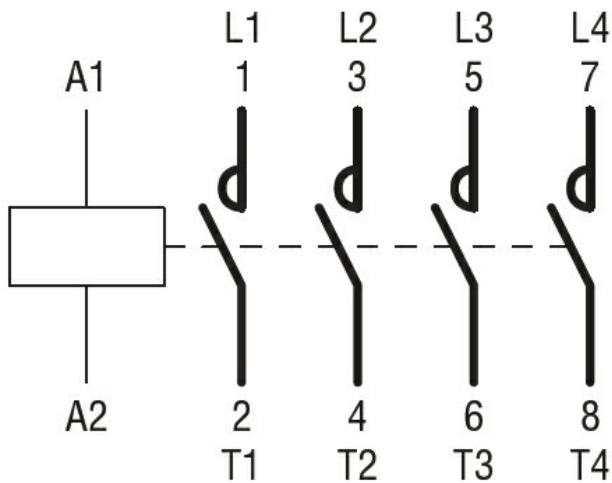
Pollution degree

3

**Dimensions [mm (in)]**



**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



Product designation				Power contactor
Product type designation				B400
<b>Contact characteristics</b>				
Number of poles	Nr.			4
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			550
Operational current $I_e$	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 $I_e$ 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 $I_e$ 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 $I_e$ 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 $I_e$ 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<sub>e</sub> in DC3-DC5 with L/R ≤ 15ms with 1 poles in series

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

IEC max current I<sub>e</sub> in DC3-DC5 with L/R ≤ 15ms 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
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Breaking capacity at voltage

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

Resistance per pole (average value)

mΩ	0.2
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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	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	2x 300 kcmil
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Power terminal protection according to IEC/EN 60529

IP00

**Mechanical features**

Operating position

	normal allowable	Vertical plan ±30°
Fixing		Screw
Weight	g	1114
Conductor section	AWG/kcmil conductor section	
	max	2x 300 kcmil

**Operations**

Mechanical life	cycles	10000000
Electrical life	cycles	700000

**Safety related data**

Performance level B10d according to EN/ISO 13489-1	rated load mechanical load	cycles	700000
		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	440
	max	V	480

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	
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		min	V	440
		max	V	480
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
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**Operating times**

Average time for Us 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

**UL technical data**

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

General USE				
	Contactor			
		AC current	A	550

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	$^{\circ}\text{C}$	-50
		max	$^{\circ}\text{C}$	70
	Storage temperature			

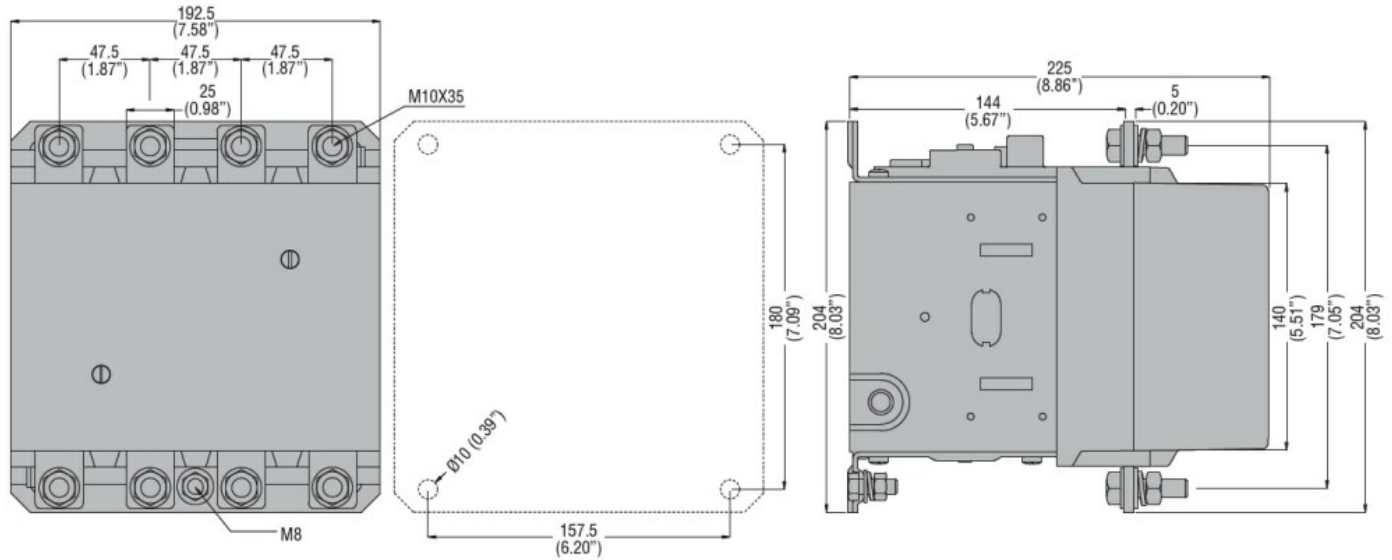
min	°C	-60
max	°C	80
Max altitude	m	3000

**Resistance & Protection**

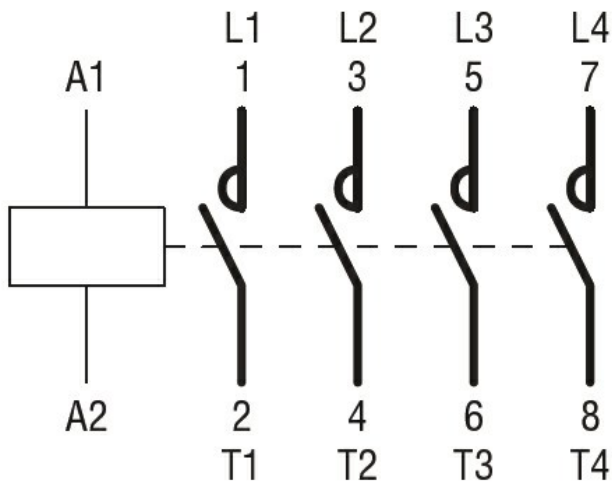
Pollution degree

3

**Dimensions [mm (in)]**



**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