



Product designation			Power contactor
Product type designation			B250
Contact characteristics			
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		А	350
Operational current le			
	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 le in DC1 with $L/R \le 1$ ms with 1 poles in series			
	75V	A	350
	110V	А	160
	220V	A	
	330V	A	
	460V	A	
IEC max current le in DC1 with $L/R \le 1$ ms with 2 poles in series			
	75V	A	350
	110V	A	300
	220V	A	250
	330V	A	
	460V	A	
IEC max current le in DC1 with $L/R \le 1$ ms with 3 poles in series			
	75V	A	350
	110V	A	300
	220V	A	300
	330V	A	250
	460V	A	
IEC max current le in DC1 with $L/R \le 1$ ms with 4 poles in series		-	
	75V	A	350
	110V	A	300
	220V	A	300
	330V	A	300
	460V	A	250

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IEC max current le in DC3-DC5 with L/R ≤ 15ms with 1 poles in series $ \begin{array}{rcrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrr$	
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	
$\begin{array}{cccc} 220 & A & \\ 330 & A & \\ 460 & A & \\ 460 & A & \\ \end{array}$ IEC max current le in DC3-DC5 with L/R < 15ms with 2 poles in series $\begin{array}{cccc} 75 & A & 280 \\ 110 & A & 250 \\ 220 & A & 200 \\ 330 & A & \\ 460 & A & \\ \end{array}$ IEC max current le in DC3-DC5 with L/R < 15ms with 3 poles in series $\begin{array}{ccccc} 75 & A & 280 \\ 110 & A & 250 \\ 220 & A & 200 \\ 330 & A & \\ 460 & A & \\ \end{array}$ IEC max current le in DC3-DC5 with L/R < 15ms with 3 poles in series $\begin{array}{cccccccccccccccccccccccccccccccccccc$	
$\begin{array}{c c c c c c c c } 330 & A &\\ 460 & A &\\ \hline 1EC max current le in DC3-DC5 with L/R \leq 15ms with 2 poles in series \\ \hline 75 & A & 280\\ 110 & A & 250\\ 220 & A & 200\\ 330 & A &\\ 460 & A &\\ \hline 1EC max current le in DC3-DC5 with L/R \leq 15ms with 3 poles in series \\ \hline 75 & A & 280\\ 110 & A & 280\\ 220 & A & 250\\ 330 & A & 200\\ 460 & A &\\ \hline 1EC max current le in DC3-DC5 with L/R \leq 15ms with 4 poles in series \\ \hline 75 & A & 280\\ 220 & A & 250\\ 330 & A & 200\\ 460 & A &\\ \hline 1EC max current le in DC3-DC5 with L/R \leq 15ms with 4 poles in series \\ \hline 75 & A & 280\\ 220 & A & 250\\ 330 & A & 200\\ 460 & A &\\ \hline 1EC max current le in DC3-DC5 with L/R \leq 15ms with 4 poles in series \\ \hline 75 & A & 280\\ 220 & A & 250\\ 330 & A & 200\\ 460 & A &\\ \hline 1EC max current le in DC3-DC5 with L/R \leq 15ms with 4 poles in series \\ \hline 75 & A & 280\\ 220 & A & 250\\ 330 & A & 200\\ 460 & A &\\ \hline 10 & A & 280\\ 220 & A & 200\\ A60 & A & 200$	
$\begin{tabular}{ c c c c } \hline 460V & A & \\ \hline \mbox{IEC max current le in DC3-DC5 with L/R < 15ms with 2 poles in series} & & & & & & & & & & & & & & & & & & &$	
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 2 poles in series75VA280110VA250220VA200330VA460VAIEC max current le in DC3-DC5 with L/R ≤ 15ms with 3 poles in series75VA280110VA280220VA250220VA280220VA250330VA200460VAIEC max current le in DC3-DC5 with L/R ≤ 15ms with 4 poles in series75VA280110VA280220VA280220VA280220VA280330VA200460VA200460VA200460VA200Short-time allowable current for 10s (IEC/EN60947-1)A2200Protection fuse42004200	
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	
$ \begin{array}{c cccc} 110 \lor & A & 250 \\ 220 \lor & A & 200 \\ 330 \lor & A & \\ 460 \lor & A & \\ \hline \\ IEC max current le in DC3-DC5 with L/R \leq 15ms with 3 poles in series \\ \hline \\ 75 \lor & A & 280 \\ 110 \lor & A & 280 \\ 220 \lor & A & 250 \\ 330 \lor & A & 250 \\ 330 \lor & A & 200 \\ 460 \lor & A & \\ \hline \\ IEC max current le in DC3-DC5 with L/R \leq 15ms with 4 poles in series \\ \hline \\ \\ IEC max current le in DC3-DC5 with L/R \leq 15ms with 4 poles in series \\ \hline \\ \\ \hline \\ T5 \lor & A & 280 \\ 220 \lor & A & 250 \\ 330 \lor & A & 200 \\ 460 \lor & A & \\ \hline \\ \\ \hline \\ IEC max current le in DC3-DC5 with L/R \leq 15ms with 4 poles in series \\ \hline \\ \\ \hline \\ T5 \lor & A & 280 \\ 220 \lor & A & 280 \\ 330 \lor & A & 200 \\ 460 \lor & A & 200 \\ \hline \\ \\ \hline \\ Short-time allowable current for 10s (IEC/EN60947-1) & A & 2200 \\ \hline \\ \hline \\ Protection fuse \\ \hline \\ \hline \\ \end{array}$	
$\begin{array}{c c c c c c } 220 & A & 200 \\ 330 & A & \\ 460 & A & \\ \hline 460 & A & \\ \hline IEC \mbox{ max current le in DC3-DC5 with L/R \leq 15ms with 3 poles in series} & & & & \\ \hline 75 & A & 280 \\ 110 & A & 280 \\ 220 & A & 250 \\ 330 & A & 200 \\ 460 & A & \\ \hline IEC \mbox{ max current le in DC3-DC5 with L/R \leq 15ms with 4 poles in series} & & & \\ \hline 110 & A & 280 \\ 220 & A & 250 \\ 330 & A & 200 \\ 460 & A & \\ \hline \\ \hline \\ 110 & A & 280 \\ 220 & A & 280 \\ 330 & A & 200 \\ 460 & A & 200 \\ \hline \\$	
$\begin{array}{c c c c c c c } 330 & A & \\ 460 & A & \\ \hline & 460 & A & \\ \hline & IEC \mbox{ max current le in DC3-DC5 with L/R $\le$ 15ms with 3 poles in series} \\ \hline & 75 & A & 280 \\ 110 & A & 280 \\ 220 & A & 250 \\ 330 & A & 250 \\ 330 & A & 200 \\ 460 & A & \\ \hline & IEC \mbox{ max current le in DC3-DC5 with L/R $\le$ 15ms with 4 poles in series} \\ \hline & 75 & A & 280 \\ 110 & A & 280 \\ 220 & A & 280 \\ 110 & A & 280 \\ 220 & A & 280 \\ 220 & A & 280 \\ 330 & A & 200 \\ 460 & A & 200 \\ 460 & A & 200 \\ 460 & A & 200 \\ \hline & 460 & A & 200 \\ 460 & A & 200 \\ \hline & Short-time allowable current for 10s (IEC/EN60947-1) & A & 2200 \\ \hline & Protection fuse \\ \hline \end{array}$	
$\begin{tabular}{ c c c c } \hline 460V & A & \\ \hline IEC max current le in DC3-DC5 with L/R \leq 15ms with 3 poles in series \\ \hline 75V & A & 280 \\ 110V & A & 280 \\ 220V & A & 250 \\ 330V & A & 200 \\ 460V & A & \\ \hline IEC max current le in DC3-DC5 with L/R \leq 15ms with 4 poles in series \\ \hline 75V & A & 280 \\ 110V & A & 280 \\ 220V & A & 280 \\ 110V & A & 280 \\ 220V & A & 280 \\ 330V & A & 200 \\ 460V & A & 200 \\ \hline 8hort-time allowable current for 10s (IEC/EN60947-1) & A & 2200 \\ \hline Protection fuse \\ \hline \end{tabular}$	
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 3 poles in series75VA280110VA280220VA250330VA200460VAIEC max current le in DC3-DC5 with L/R ≤ 15ms with 4 poles in series75VA280110VA280220VA280220VA280330VA200460VA200460VA200Short-time allowable current for 10s (IEC/EN60947-1)A2200Protection fuse200A2200	
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	
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$\begin{array}{c c c c c c c c c c c c c c c c c c c $	
$\begin{tabular}{ c c c c c } \hline 460V & A & \\ \hline IEC max current le in DC3-DC5 with L/R \leq 15ms with 4 poles in series \\ \hline 75V & A & 280 \\ 110V & A & 280 \\ 220V & A & 280 \\ 330V & A & 280 \\ 330V & A & 200 \\ \hline 460V & A & 200 \\ \hline 460V & A & 200 \\ \hline \\ \hline Protection fuse \\ \hline \end{tabular}$	
IEC max current le in DC3-DC5 with L/R $\leq$ 15ms with 4 poles in series75VA280110VA280220VA280330VA200460VA200Short-time allowable current for 10s (IEC/EN60947-1)A2200Protection fuse	
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       X       2200	
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       X       2200	
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       Z       Z       Z	
220V         A         280           330V         A         200           460V         A         200           Short-time allowable current for 10s (IEC/EN60947-1)         A         2200           Protection fuse         X         2200	
330V         A         200           460V         A         200           Short-time allowable current for 10s (IEC/EN60947-1)         A         2200           Protection fuse         A         2200	
460VA200Short-time allowable current for 10s (IEC/EN60947-1)A2200Protection fuse	
Short-time allowable current for 10s (IEC/EN60947-1)       A       2200         Protection fuse	
Protection fuse	
Making capacity (RMS value)     A     2750	
Breaking capacity at voltage	
440V A 2500	
500V A 2250	
690V A 2200	
Resistance per pole (average value)mΩ0.2	
Power dissipation per pole (average value)	
Ith W 24.5	
AC-3 W 12.5	
Tightening torque for terminals	
min Nm 35	
max Nm 35	
min Ibin 25.8	
max Ibin 25.8	
Tightening torque for coil terminal	
min Nm 1	
max Nm 1	
min Ibin 0.74	
max Ibin 0.74	
Max number of wires simultaneously connectable Nr. 2	
Conductor section	
AWG/Kcmil	
Mechanical features	



**11B250400440** FOUR-POLE CONTACTOR, IEC OPERATING CURRENT ITH (AC1) = 350A, AC/DC COIL, 440...480VAC/DC

Operating position

Operating position		normal allowable		Vertical plan ±30°
Fixing				Screw
Weight			g	1114
Conductor section				
	AWG/kcmil conductor section			
		max		500 kcmil
Operations				
Mechanical life			cycles	1000000
Electrical life			cycles	1000000
Safety related data				
Performance level B1	0d according to EN/ISO 13489-1			100000
		rated load	cycles	1000000
A		mechanical load	cycles	1000000
	ng to IEC/EN 609474-4-1			yes
EMC compatibility				yes
AC coil operating				
Rated AC voltage at 5			17	440
		min	V V	440 415
AC operating voltage		max	v	410
AC operating voltage	of 50/60Hz coil powered at 50Hz			
	pick-up			
	ρισκ-αρ	min	%Us	80
		max	%Us	110
	drop-out	Пах	/003	110
		min	%Us	20
		max	%Us	60
	of 50/60Hz coil powered at 60Hz			
	pick-up			
	r 1	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 consu				
	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
	≤20°C 50Hz		W	10

DC rated control voltage



FOUR-POLE CONTACTOR, IEC OPERATING CURRENT ITH (AC1) = 350A, AC/DC COIL, 440...480VAC/DC

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			min	V	440
			max	V	415
DC operating voltage					
	pick-up				
			min	%Us	80
			max	%Us	110
	drop-out				
			min	%Us	20
			max	%Us	60
Average coil consump	tion ≤20°C				
5 1			in-rush	W	300
			holding	W	10
Max cycles frequency					
Mechanical operation				cycles/h	2400
Operating times				0,0100,11	2100
Average time for Us co	ontrol				
	in AC				
		Closing NO			
			min	ms	80
			max	ms	120
		Opening NO	IIIdX	1115	120
			min	ms	30
			max	ms	75
	in DC		Παλ	1113	15
		Closing NO			
			min	ms	80
			max	ms	120
		Opening NO	Παλ	1115	120
			min	ms	30
			max	ms	75
UL technical data			Παλ	1113	15
	for three-phase AC mo	otor			
	Tor three-phase AC mit	5101	at 480V	۸	240
			at 600V	A	240 242
			ai 600 v	A	242
Yielded mechanical pe					
	for three-phase AC m	notor	000/0001/		75
			200/208V	HP	75
			220/230V	HP	100
0			575/600V	HP	250
General USE	0 4 4				
	Contactor				050
<b>A</b>	(		AC current	A	350
Short-circuit protection					
	Standard fault			_	
			Short circuit current	kA	18
			Fuse rating	A	800
			Fuse class		L
Ambient conditions					
Temperature					
	Operating temperatur	е			
			min	°C	-50
			max	°C	70
	Storage temperature				
			min	°C	-60

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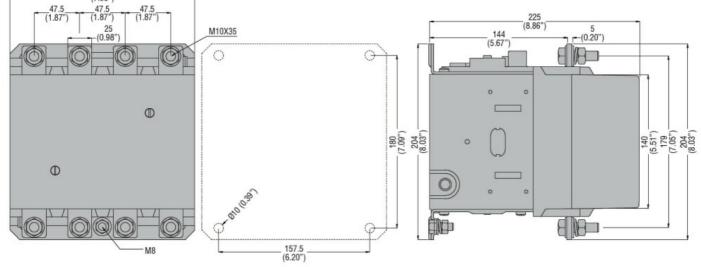


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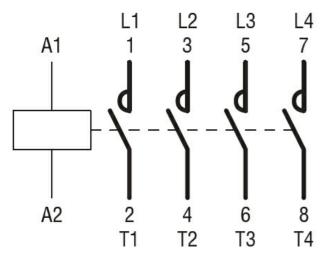
440...480VAC/DC

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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	on	
		EC000066 -
ETIM 8.0		Power contactor,
		AC switching

**11B250400440** FOUR-POLE CONTACTOR, IEC OPERATING CURRENT ITH (AC1) = 350A, AC/DC COIL, 440...480VAC/DC



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