



High Voltage DC Contactor

Selector Guide of our Product Offering



DC Contactor Selection Guide • 20A–60A

Electric vehicles and industrial electronic control systems demand reliable, high-performance power management solutions. Littelfuse High-Voltage DC Contactor Relays are engineered to meet those demands with robust switching capability, long electrical life, and circuit protection across a wide range of applications, including Hybrid Electric Vehicles (HEVs), Battery Electric Vehicles (BEVs), eMobility, electric maintenance and transport vehicles, material handling equipment, industrial machinery, and energy storage systems.

Our portfolio includes models with continuous current ratings from 30A to 800A and maximum voltage ratings up to 1800V DC, supporting both low- and high-power system requirements. Browse our expanding line of DC Contactors and partner with Littelfuse on your next design.

CURRENT (A)	MAX VOLTS (V)	COIL VOLTS (V)	MOUNTING TYPE	AUX CONTACTS	POLARIZED	PART NUMBER	REFERENCE IMAGE
20	1000	12	Bottom	No	Yes	DCNHE20PF12-Q	A
		24				DCNHE20PF24-Q	A
		48				DCNHE20PF48-Q	A
		60				DCNHE20PF60-Q	A
		12	Thru-hole PCB	No	Yes	DCNHE20PF12-P	B
		24				DCNHE20PF24-P	B
		48				DCNHE20PF48-P	B
		60				DCNHE20PF60-P	B
	1500	12	Bottom	No	No	DCNHF20NH12-Q	C
		24				DCNHF20NH24-Q	C
30	1000	12	Bottom	No	Yes	DCNHE30PF12	D
		24				DCNHE30PF24	D
		48				DCNHE30PF48	D
50	1000	12	Bottom	Yes	No	DCNHE50MF12-F	E
		24				DCNHE50MF24-F	E
		48				DCNHE50MF48-F	E
		12	Bottom	No		DCNHE50NF12-F	E
		24				DCNHE50NF24-F	E
		48				DCNHE50NF48-F	E
		12	Bottom	Yes	Yes	DCNHE50QF12-B	F
		24				DCNHE50QF24-B	F
		48				DCNHE50QF48-B	F
		12	Bottom	Yes		DCNHE50QF12-F	F
		24				DCNHE50QF24-F	F
		48				DCNHE50QF48-F	F
		12	Bottom	No	No	DCNHE50PF12-F	E
		24				DCNHE50PF24-F	E
		48				DCNHE50PF48-F	E
		12	Side	Yes		DCNHE50MF12-T	G
		24				DCNHE50MF24-T	G
		48				DCNHE50MF48-T	G
		12	Side	No	DCNHE50NF12-T	G	
		24			DCNHE50NF24-T	G	
		48			DCNHE50NF48-T	G	
		12	Side	Yes	Yes	DCNHE50QF12-T	G
		24				DCNHE50QF24-T	G
		48				DCNHE50QF48-T	G
		12	Side	No		DCNHE50PF12-T	G
		24				DCNHE50PF24-T	G
48	DCNHE50PF48-T	G					
60	1000	12	Bottom	No	No	DCNHF60NG12-F	H
		24				DCNHF60NG24-F	H
		48				DCNHF60NG48-F	H

PRODUCT IMAGES



DC Contactor Selection Guide • 100A-200A

CURRENT (A)	MAX VOLTS (V)	COIL VOLTS (V)	MOUNTING TYPE	AUX CONTACTS	POLARIZED	PART NUMBER	REFERENCE IMAGE			
100	60	12	Bottom	No	No	DCNLR100NB12	A			
		24				DCNLR100NB24	A			
		48				DCNLR100NB48	A			
	1000	12	Bottom	Yes		DCNHE100MF12-B	D			
						24	DCNHE100MF24-B	D		
						48	DCNHE100MF48-B	D		
		12	Bottom			DCNHE100MF12-F	B			
						24	DCNHE100MF24-F	B		
						48	DCNHE100MF48-F	B		
		12	Bottom	No		DCNHE100NF12-F	B			
						24	DCNHE100NF24-F	B		
						48	DCNHE100NF48-F	B		
		12	Bottom			DCNHE100NF12-B	C			
						24	DCNHE100NF24-B	C		
						48	DCNHE100NF48-B	C		
		12	Side	Yes		DCNHE100MF12-T	D			
						24	DCNHE100MF24-T	D		
						48	DCNHE100MF48-T	D		
		12	Side	No		DCNHE100NF12-T	D			
						24	DCNHE100NF24-T	D		
						48	DCNHE100NF48-T	D		
		Yes	12	Bottom	Yes	DCNHE100QF12-F	E			
						24	DCNHE100QF24-F	E		
						48	DCNHE100QF48-F	E		
				12		Bottom	DCNHE100QF12-B	C		
							24	DCNHE100QF24-B	C	
							48	DCNHE100QF48-B	C	
			12	Bottom	No	DCNHE100PF12-F	G			
						24	DCNHE100PF24-F	F		
						48	DCNHE100PF48-F	F		
				12		Bottom	Yes (NC)	DCNHE100RF12-F	F	
								24	DCNHE100RF24-F	F
								48	DCNHE100RF48-F	F
			12	Side	Yes	DCNHE100QF12-T		G		
						24		DCNHE100QF24-T	G	
						48		DCNHE100QF48-T	G	
				12		Side	No	DCNHE100PF12-T	G	
								24	DCNHE100PF24-T	G
								48	DCNHE100PF48-T	G
150	1000	12~36	Bottom		No	No		DCNHE150NFA-B	H	
			Bottom		SPST-NO			DCNHE150NFA-F	I	
			Bottom		No			DCNHE150MFA-B	H	
			Bottom	SPST-NO	Yes	DCNHE150MFA-F	I			
						DCNHE150PFA-B	H			
						DCNHE150PFA-F	I			
		12	Bottom	No	No	DCNHE150QFA-B	H			
						24	DCNHE150QFA-F	I		
						12	DCNHF150NG12-F	J		
						24	DCNHF150NG24-F	J		
200	60	Bottom	No	No	DCNLR200NB12	K				
					24	DCNLR200NB24	K			
					48	DCNLR200NB48	K			
					60	DCNLR200NB60	K			
					60	DCNLR200NB60	K			

PRODUCT IMAGES



DC Contactor Selection Guide • 250A–350A

CURRENT (A)	MAX VOLTS (V)	COIL VOLTS (V)	MOUNTING TYPE	AUX CONTACTS	POLARIZED	PART NUMBER	REFERENCE IMAGE	
250	60	12	Side	No	No	DCNLJ250NB12-01	B	
	110	12			Yes	DCNLJ250PD12	A	
	1000	12~36	Bottom	No	No	DCNHE250NFA-B	D	
		32~95				DCNHE250NFB-B	D	
		12~36				DCNHE250NFA-F	C	
		32~95				DCNHE250NFB-F	C	
		12~36	Bottom	SPST-NO		DCNHE250MFA-B	D	
		32~95				DCNHE250MFB-B	D	
		12~36	Bottom	SPST-NC		DCNHE250UFA-B	D	
		32~95				DCNHE250UFB-B	D	
		12~36	Bottom	SPST-NO		DCNHE250MFA-F	C	
		32~95				DCNHE250MFB-F	C	
		12~36	Bottom	SPST-NC		DCNHE250UFA-F	C	
		32~95				DCNHE250UFB-F	C	
		12~36	Bottom	No	Yes	DCNHE250PFA-B	D	
		32~95				DCNHE250PFB-B	D	
		12~36				DCNHE250PFA-F	C	
		32~95				DCNHE250PFB-F	C	
		12~36	Bottom	SPST-NO		DCNHE250QFA-B	D	
		32~95				DCNHE250QFB-B	D	
		12~36	Bottom	SPST-NC		DCNHE250RFA-B	D	
		32~95				DCNHE250RFB-B	D	
		12~36	Bottom	SPST-NO		DCNHE250QFA-F	C	
		32~95				DCNHE250QFB-F	C	
		12~36	Bottom	SPST-NC		DCNHE250RFA-F	C	
		32~95				DCNHE250RFB-F	C	
300	1000	12~36	Bottom	Yes	No	DCNHE300MFA-B	F	
				No		DCNHE300MFA-F	E	
		12		DCNHE300NFA-B		F		
		24		DCNHE300NFA-F		E		
		12		DCNHF300NG12-F		G		
		24		DCNHF300NG24-F		G		
350	1000	12	Bottom	No	No	DCNHE350NF12-B	H	
						24	DCNHE350NF24-B	H
						12	DCNHE350NF12-F	I
						24	DCNHE350NF24-F	I
		12	DCNHE350MF12-B	H				
		24	DCNHE350MF24-B	H				
		12	DCNHE350MF12-F	I				
		24	DCNHE350MF24-F	I				
		12~36	Bottom	Yes		DCNHC350MHA-F	J	
		12		DCNHF350MH12-F		K		
	1800	24	Bottom	Yes		DCNHF350MH24-F	K	
						12	DCNHF350MH12-B	L
						24	DCNHF350MH24-B	L

PRODUCT IMAGES

					
A	B	C	D	E	F
					
G	H	I	J	K	L

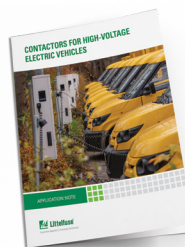
DC Contactor Selection Guide • 400A–800A

CURRENT (A)	MAX VOLTS (V)	COIL VOLTS (V)	MOUNTING TYPE	AUX CONTACTS	POLARIZED	PART NUMBER	REFERENCE IMAGE				
400	1000	12	Bottom	Yes	No	DCNHE400MF12-B	A				
		24				DCNHE400MF24-B	A				
		12				DCNHE400MF12-F	B				
		24				DCNHE400MF24-F	B				
		12	Bottom	No		DCNHE400NF12-B	A				
		24				DCNHE400NF24-B	A				
		12				DCNHE400NF12-F	B				
		24				DCNHE400NF24-F	B				
	1800	Bottom	Yes	DCNHF400MH12-F		C					
				24		DCNHF400MH24-F	C				
				500		1800	Bottom	Yes	No	DCNHF500MH12-F	D
										24	DCNHF500MH24-F
600	1500	Bottom	No		No	DCNHF600NH12-F				E	
						24				DCNHF600NH24-F	E
				12		DCNHF600NH12-B	F				
				24		DCNHF600NH24-B	F				
800	1500	Bottom	No	No	DCNHF800NH12-B	F					
					24	DCNHF800NH24-B	F				
	1800	Bottom	Yes		DCNHF800MH12-F	D					
					24	DCNHF800MH24-F	D				

PRODUCT IMAGES					
					
A	B	C	D	E	F

Additional Resources:

Application Note: Contactors for High Voltage Vehicles



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White Paper: DC Contactor Relays



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