

### Description

- Available for starter construction with A Line contactors and separate panel mounting
- Designed for close couple mounting
- Separate base mounting available for all overload relays
- E16DU Class 10, 20, & 30, field selectable
- E200DU – E800DU Class 10, 20 & 30, field selectable
- Stop button
- Screwdriver guide holes
- All terminal screws are available from the front
- Single phase and phase unbalance protection
- Isolated alarm circuit (N.O.) contact
- Ambient compensation: -25°C to +70°C (-13°F to +158°F)
- Manual test
- Manual or automatic reset
- Factory calibrated and tested
- Wide adjustment range
- UL File No: E48139
- CSA File No: LR98336

### Tripping classes of the thermal overload relays

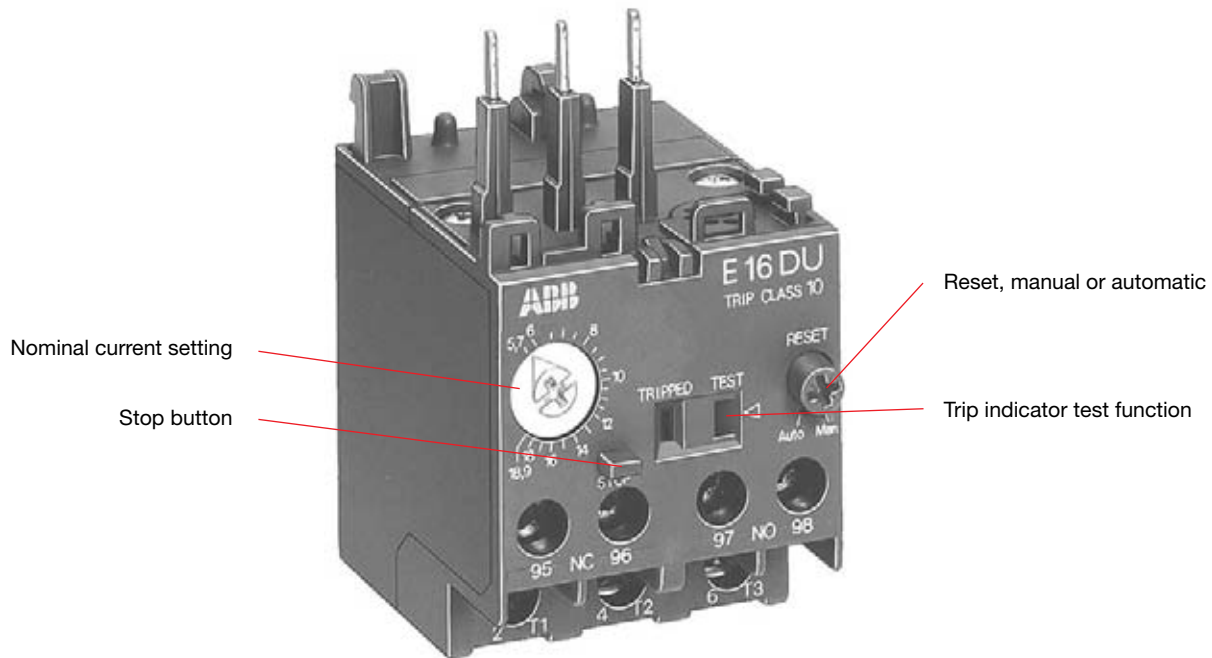
Standard classes in IEC 947-4-1 are classes: 10 A, 10, 20, 30. The tripping class indicates according to IEC 947-4-1 the maximum tripping time in seconds under specified conditions of test at 7.2 times the setting current and specifies tripping and non tripping times for 1.5 and 7.2 times the setting current. Mostly used class is 10 A.

### Abstract from IEC 947-4-1

Tripping class	10 A	10	20	30
Max. tripping time at 1.5 x setting current (warm state) (s)	120	240	480	720
Tripping time at 7.2 x setting current (cold state) (s)	2 – 10	4 – 10	6 – 20	9 – 30
At 1.05 x setting current	no tripping			

## Catalog number explanation

2



## Catalog number explanation

### E16DU 1.0

**Frame size**

E16DU  
E200DU  
E320DU  
E500DU  
E800DU

**Amp rating**

1.0  
200  
320  
500  
800

## Selection by motor horsepower UL/CSA Starters with electronic overload

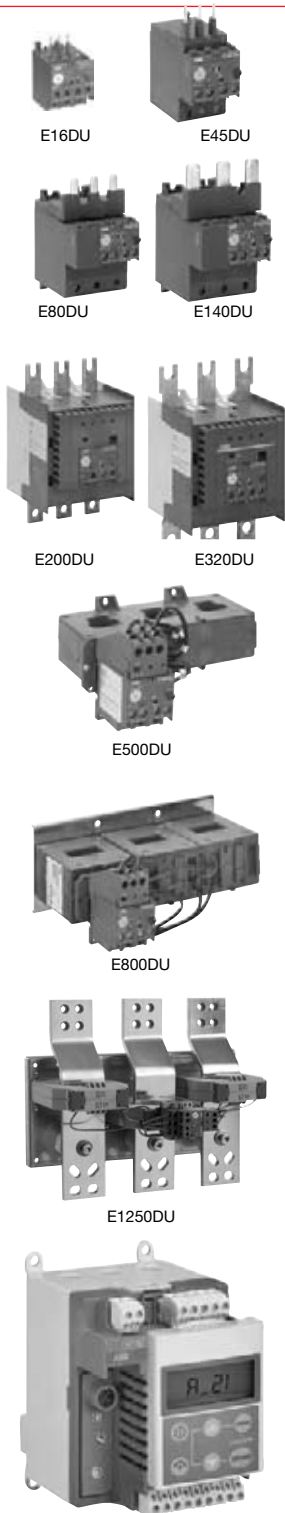
Electronic  
Overload  
relays

2

Motor horsepower 3 Phase, 1800 RPM				Open Complete starter		Starter components				
200V	230V	460V	575V	Catalog number	List Price	Catalog number	List Price	Catalog number	List Price	
—	—	—	1/4	11-2B1	<b>\$ 198</b>	A9-30-10-84	<b>\$ 78</b>	E16DU1.0 (0.3 - 1.0)	<b>\$ 96</b>	
—	—	1/4,1/3	1/3							
—	—	—	1/2							
—	—	1/2	3/4	11-2C1		A9-30-10-84		E16DU2.7 (0.9-2.7)		
—	—	3/4	—							
—	1/2	1	1 1/2	11-2D1		A9-30-10-84		E16DU6.3 (2.0-6.3)		
1/2	—	1 1/2	2							
3/4	3/4	2	—							
—	1	—	3	11-2E1		A9-30-10-84		E16DU18.9 (5.7-18.9)		
1	1 1/2	3	5							
2	2	5	7 1/2	21-2E1	<b>204</b>	A12-30-10-84	<b>84</b>	E16DU18.9 (5.7-18.9)	<b>105</b>	
3	3	7 1/2	10	31-2E1	<b>233</b>	A16-30-10-84	<b>102</b>			
5	5	10	15	41-2E1	<b>336</b>	A26-30-10-84	<b>183</b>	E45DU30 (9-30)		
—	7 1/2	15	20							
7 1/2	10	20	25	51-2E2	<b>414</b>	A30-30-10-84	<b>252</b>	E45DU45 (15-45)		
10	10	—	—							
—	—	25	30	61-2E2	<b>472</b>	A40-30-10-84	<b>297</b>	E45DU45 (15-45)		
10	15	30	40							
15	20	40	50	71-2E1	<b>544</b>	A50-30-11-84	<b>330</b>	E80DU80 (27-80)		<b>188</b>
20	—	50	60	81-2E1	<b>608</b>	A63-30-11-84	<b>372</b>			
25	30	60	75	91-2E1	<b>649</b>	A75-30-11-84	<b>413</b>			
30	—	—	—	A1-2E1	<b>861</b>	A110-30-11-84	<b>480</b>	E140DU140 (50-140)		
—	40	75	100							
40	50	100	125	B1-2E2	<b>1,415</b>	A145-30-11-84	<b>825</b>	E200DU200 (60-200)	<b>325</b>	
50	60	125	150	C1-2E2	<b>1,830</b>	A185-30-11-84	<b>1,290</b>			
60	75	150	200	D1-2E3	<b>2,422</b>	A210-30-11-84	<b>1,635</b>	E320DU320 (100-320)	<b>775</b>	
75	100	200	250	E1-2E3	<b>3,027</b>	A260-30-11-84	<b>1,815</b>			
100	—	250	300	F1-2E3	<b>3,177</b>	A300-30-11-84	<b>1,875</b>	E500DU500 (150-500)	<b>865</b>	
125	5/6	350	400	G1-70E5	<b>4,125</b>	AF400-30-11-70	<b>3,120</b>			
150	200	400	500	H1-70E5	<b>5,700</b>	AF460-30-11-70	<b>4,425</b>	E800DU800 (250-800)	<b>950</b>	
200	250	500	600	T1-70E8	<b>8,346</b>	AF580-30-11-70	<b>6,900</b>			
250	300	600	700	U1-70E8	<b>8,646</b>	AF750-30-11-70	<b>7,200</b>			

## E16DU – E1250DU for contactors and mini contactors

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Universal Motor Controller, UMC22-FBP.0

Catalog number	Setting range	Trip class	List price	Contactor	Suffix code
<b>Trip Class, Selectable 10, 20, 30</b>					
E16DU0.32	0.1-0.32A	10, 20, 30	<b>\$ 96</b>	B...6-B...7 / A...9...A...16...	A1
E16DU1.0	0.3-1.0A	10, 20, 30		B...6-B...7 / A...9...A...16...	B1
E16DU2.7	0.9-2.7A	10, 20, 30		B...6-B...7 / A...9...A...16...	C1
E16DU6.3	2.0-6.3A	10, 20, 30		B...6-B...7 / A...9...A...16...	D1
E16DU18.9	5.7-18.9A	10, 20, 30		B...6-B...7 / A...9...A...16...	E1

### Trip Class selectable, 10, 20, 30

E45DU30	9-30A	10, 20, 30	<b>105</b>	A...26 ... A...40	E1
E45DU45	15-45A	10, 20, 30	<b>112</b>	A...26 ... A...40	E2
E80DU80	27-80A	10, 20, 30	<b>188</b>	A...50 ... A...75	E1
E140DU140	50-140A	10, 20, 30	<b>261</b>	A...95 ... A...110	E1
E200DU200	65-200A	10, 20, 30	<b>325</b>	A...145 ... A...185	E2
E320DU320	105-320A	10, 20, 30	<b>775</b>	A...210 ... A...300	E3
E500DU500	170-500A	10, 20, 30	<b>865</b>	AF...400 ... AF...460	E5
E800DU800	270-800A	10, 20, 30	<b>950</b>	AF...580 ... AF...750	E8
E1250DU1250	375-1250A	10, 20, 30	<b>2,970</b>	AF...1350 ... AF...1650	E12

NOTE: Electronic overload relays are not suitable for single-phase and DC motors.

### Universal motor controller

Universal motor controller with thermal overload protection 0.24 - 63 A in a single device type. Bushing-type transformer, cable cross section 25mm<sup>2</sup> (max. diameter including insulation - 11mm). Integrated motor control functions: Direct starting, reverse starting, star-delta starting, servo-drive functions. Diagnostic functions: Overload phase failure, trip categories, 5, 10, 20, 30. Integrated storage of parameters and motor data. 6 digital inputs, 3 relay outputs. Fieldbus-independent interface for connection to FBP fieldbus connectors, interface to operating panel ACS100-PAN.

Description	Contactor	Setting range	Trip class	Catalog number	List price
UMC22-FBP.0	A9 - AF1650	0.63 - 63 A	5, 10, 20, 30	1SAJ510000R0600	<b>\$ 603</b>