

Thermal Magnetic Circuit Breaker

Full Voltage Type

3-Pole Polyphase—600 Vac Maximum—50–60 Hz

For Form H30\* (special lower-FLA factory-assembled starter combinations with Motor Logic SSOLR protection), see [Solid-State Overload Relay Forms](#), page 16-119.

Table 16.146: Class 8539 Full Voltage, Thermal-Magnetic Circuit Breaker Type, Non-Reversing, with Motor Logic SSOLR (replace ●●● with the voltage code)<sup>[58]</sup>

Ratings					NEMA 1 General Purpose Enclosure	NEMA 4 & 4X Watertight and Dusttight Enclosure Stainless Steel (304) (Sizes 0–5) <sup>[59]</sup>	NEMA 4 & 4X Watertight, Dusttight and Corrosion Resistant Polyester Enclosure	NEMA 12/3R/60 Dusttight and Driptight Industrial Use Enclosure		
Motor Voltage (Starter Voltage)	Max. Hp Polyphase	NEMA Size	Circuit Breaker		Type [61]	Type [61]	Type [61]	With External Reset Type [61]	Without External Reset Type [61]	
			Type	Ampere Rating						
200 (208)	2	0	HLL36015	15	SBG1●●●H30 [62]	SBW1●●●H30 [62]	SBW11●●●H30 [62]	SBA11●●●H30 [62]	SBA1●●●H30 [62]	
	3		HLL36020	20	SBG3●●●H30 [62]	SBW3●●●H30 [62]	SBW13●●●H30 [62]	SBA13●●●H30 [62]	SBA3●●●H30 [62]	
	5	1	HLL36035	35	SCG5●●●H30 [62]	SCW5●●●H30 [62]	SCW15●●●H30 [62]	SCA15●●●H30 [62]	SCA5●●●H30 [62]	
	7-1/2		HLL36050	50	SCG2●●●H30 [62]	SCW2●●●H30 [62]	SCW12●●●H30 [62]	SCA12●●●H30 [62]	SCA2●●●H30 [62]	
	10	2	HLL36060	60	SDG1●●●H30 [62]	SDW1●●●H30 [62]	SDW11●●●H30 [62]	SDA11●●●H30 [62]	SDA1●●●H30 [62]	
	15		HLL36100	100	SEG3●●●H30	SEW3●●●H30	SEW13●●●H30	SEA13●●●H30	SEA3●●●H30	
	20	3	HLL36125	125	SEG1●●●H30	SEW1●●●H30	SEW11●●●H30	SEA11●●●H30	SEA1●●●H30	
	25		HLL36150	150	SEG5●●●H30	SEW5●●●H30	SEW15●●●H30	SEA15●●●H30	SEA5●●●H30	
	30	4	JLL36200	200	SFG3●●●H30	SFW3●●●H30	SFW13●●●H30	SFA13●●●H30	SFA3●●●H30	
	40		JLL36250	250	SFG4●●●H30	SFW4●●●H30	SFW14●●●H30	SFA14●●●H30	SFA4●●●H30	
50	5	JLL36250	250	SGG6●●●H30	SGW6●●●H30	—	SGA16●●●H30	SGA6●●●H30		
60–75		LLL36400U33X	400	SGG4●●●H30	SGW4●●●H30	—	SGA14●●●H30	SGA4●●●H30		
100–125	6	LLL36600U33X	600	SHG4●●●H30	SHW4●●●H30	—	SHA14●●●H30	SHA4●●●H30		
150		MJL36800	800	SHG5●●●H30	SHW5●●●H30	—	SHA15●●●H30	SHA5●●●H30		
230 (240)	2	0	HLL36015	15	SBG1●●●H30 [62]	SBW1●●●H30 [62]	SBW11●●●H30 [62]	SBA11●●●H30 [62]	SBA1●●●H30 [62]	
	3		HLL36020	20	SBG3●●●H30 [62]	SBW3●●●H30 [62]	SBW13●●●H30 [62]	SBA13●●●H30 [62]	SBA3●●●H30 [62]	
	5	1	HLL36035	35	SCG5●●●H30 [62]	SCW5●●●H30 [62]	SCW15●●●H30 [62]	SCA15●●●H30 [62]	SCA1●●●H30 [62]	
	7-1/2		HLL36045	45	SCG6●●●H30 [62]	SCW6●●●H30 [62]	SCW16●●●H30 [62]	SCA16●●●H30 [62]	SCA6●●●H30 [62]	
	10	2	HLL36060	60	SDG1●●●H30 [62]	SDW1●●●H30 [62]	SDW11●●●H30 [62]	SDA11●●●H30 [62]	SDA1●●●H30 [62]	
	15		HLL36090	90	SDG7●●●H30 [62]	SDW7●●●H30 [62]	SDW17●●●H30 [62]	SDA17●●●H30 [62]	SDA7●●●H30 [62]	
	20	3	HLL36100	100	SEG3●●●H30	SEW3●●●H30	SEW13●●●H30	SEA13●●●H30	SEA3●●●H30	
	25–30		HLL36150	150	SEG5●●●H30	SEW5●●●H30	SEW15●●●H30	SEA15●●●H30	SEA5●●●H30	
	40	4	JLL36225	225	SFG1●●●H30	SFW1●●●H30	SFW11●●●H30	SFA11●●●H30	SFA1●●●H30	
	50		JLL36250	250	SFG4●●●H30	SFW4●●●H30	SFW14●●●H30	SFA14●●●H30	SFA4●●●H30	
60	5	JLL36250	250	SGG6●●●H30	SGW6●●●H30	—	SGA16●●●H30	SGA6●●●H30		
75		LLL36400U33X	400	SGG4●●●H30	SGW4●●●H30	—	SGA14●●●H30	SGA4●●●H30		
100	6	LLL36600U33X	600	SGG2●●●H30	SGW2●●●H30	—	SGA12●●●H30	SGA2●●●H30		
125		LLL36600U33X	600	SHG4●●●H30	SHW4●●●H30	—	SHA14●●●H30	SHA4●●●H30		
150–200	7	MJL36800	800	SHG5●●●H30	SHW5●●●H30	—	SHA15●●●H30	SHA5●●●H30		
250–300		PKL36100	1200	SJG3●●●H30	SJW3●●●H30	—	SJA13●●●H30	—		

NOTE: Some control transformers may require the use of oversized enclosures. Refer to .

Table 16.147: Coil Voltage Codes

Voltage		Code
60 Hz	50 Hz	
24 <sup>[63]</sup>	—	V01
120 <sup>[64]</sup>	110	V02
208	—	V08
240	220	V03
277	—	V04
480	440	V06
600	550	V07
Specify	Specify	V09

NOTE: For voltage codes used with control transformers, see page 16-118. Form S (separate control) is used when a separate source of power is available for the control (coil) voltage. Form S is provided at no charge.

Dimensions: [page 16-58](#)  
 Factory Modifications (Forms): [page 16-117](#)  
 Replacement Parts (Class 9998): [page 16-122](#)  
 Type S Accessories (Class 9999): [page 16-125](#)  
 For How to Order Information, see [page 16-28](#).

16 NEMA AND DEFINITE PURPOSE CONTACTORS AND STARTERS



[58] To order melting alloy overload relay, remove form "H30" from part number.

[59] Size 6 and 7 are NEMA 4 only, painted sheet steel enclosures.

[60] NEMA 12 enclosures can be field modified for outdoor non-corrosive and non-serve entrance rated applications. See [page 16-112](#) for more information.

[61] Replace the three bullets (●●●) in the catalog number with the coil voltage code. Refer to the standard coil voltage codes listed in [Table 16.147](#).

[62] Form H30, with the possibility of a fourth character to select a lower FLA range (for example, H308). See "Solid-State Overload Relay Forms" on [page 16-119](#)

[63] 24 V coils are not available on Sizes 4–7. On Sizes 00–3, where 24 V coils are available,

Form S (separate control) must be specified (for example, order as 8539SBG1V01S).

[64] These voltage codes must include Form S (provided at no charge). When specifying Form S, please include the motor voltage when ordering (for example, order as 8539SCG5V02S).