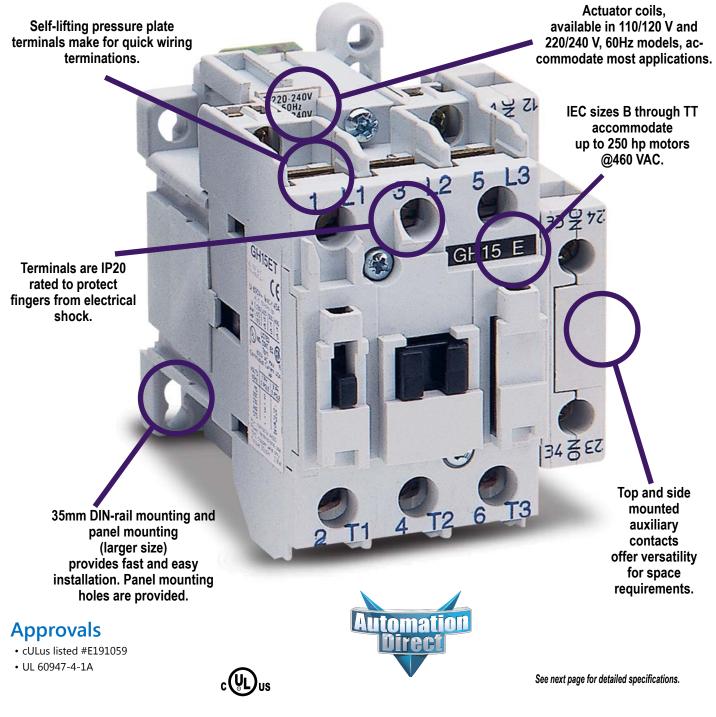
1-800-633-0405 For the lates GH15 Series IEC Motor Controls

The GH15 series of IEC contactors and thermal overload relays are manufactured by Europe's leading maritime contactor company. Contactors for oceangoing vessels are built to the most rigid specifications. This same design technology carries over to this line of industrial motor controls.

We offer individual components that

allow you to use the contactor alone or to assemble your motor starter using our thermal overload relays. You can also combine a manual motor starter/ protector for all-in-one protection.

Use contactors wherever you need a heavy-duty switching device with up to three poles. Add up to 2 side-mounted auxiliary blocks (1 per side) plus 1 top-mounted auxiliary contact block per contactor max. This will equal up to 8 possible auxiliary contact configurations. Or use the optional mechanical interlock to create an inexpensive reversing contactor.



1-800-633-0405 For the latest prices, please check / GH15 Series Contactor Configurations

	Contactor Configurations								
				Nu	umber of Co	ontacts			
IEC FRAME SIZE	Contactor Model*	Part Number	Price	Main	Auxiliary Contacts Nain Included		Coil Voltage and Frequency		
				N.0	N.C.				
GH15BN	<u>GH15BN-3-10A</u>	\$54.00	3	1	-	110-120 VAC 50-60 Hz			
	<u>GH15BN-3-01A</u>	\$53.00	3	-	1	110-120 VAC 50-60 Hz			
		<u>GH15BN-3-10B</u>	\$54.00	3	1	-	220-240 VAC 50-60 Hz		
		<u>GH15CN-3-10A</u>	\$62.00	3	1	-	110-120 VAC 50-60 Hz		
	GH15CN	GH15CN-3-01A	\$62.00	3	-	1	110-120 VAC 50-60 Hz		
	GHISCN	<u>GH15CN-3-10B</u>	\$62.00	3	1	-	220-240 VAC 50-60 Hz		
		<u>GH15CN-3-01B</u>	\$62.00	3	-	1	220-240 VAC 50-60 Hz		
45 mm		<u>GH15DN-3-10A</u>	\$67.00	3	1	-	110-120 VAC 50-60 Hz		
	GH15DN	GH15DN-3-01A	\$67.00	3	-	1	110-120 VAC 50-60 Hz		
	GHISDN	<u>GH15DN-3-10B</u>	\$67.00	3	1	-	220-240 VAC 50-60 Hz		
		GH15DN-3-01B	\$67.00	3	-	1	220-240 VAC 50-60 Hz		
	GH15ET	<u>GH15ET-3-00A</u>	\$101.00	3	-	-	110-120 VAC 50-60 Hz		
	GHIJEI	<u>GH15ET-3-00B</u>	\$101.00	3	-	_	220-240 VAC 50-60 Hz		
	OUMEET	GH15FT-3-00A	\$110.00	3	-	-	110-120 VAC 50-60 Hz		
	GH15FT	GH15FT-3-00B	\$110.00	3	-	-	220-240 VAC 50-60 Hz		
	GH15GT	<u>GH15GT-3-00A</u>	\$199.00	3	-	-	120 VAC 60 Hz only		
	GH15G1	<u>GH15GT-3-00B</u>	\$197.00	3	-	-	240 VAC 60 Hz / 212 VAC 50 Hz		
60	OUAFUT	<u>GH15HT-3-00A</u>	\$222.00	3	-	-	120 VAC 60 Hz only		
60 mm	GH15HT	GH15HT-3-00B	\$222.00	3	-	-	240 VAC 60 Hz / 212 VAC 50 Hz		
		GH15JT-3-00A	\$232.00	3	-	-	120 VAC 60 Hz only		
	GH15JT	GH15JT-3-00B	\$232.00	3	-	-	240 VAC 60 Hz / 212 VAC 50 Hz		
	GH15KT	GH15KT-3-00A	\$286.00	3	-	-	120 VAC 60 Hz only		
	OUASIT	GH15LT-3-00A	\$339.00	3	-	_	120 VAC 60 Hz only		
79 mm	GH15LT	GH15LT-3-00B	\$339.00	3	-	_	240 VAC 60 Hz / 212 VAC 50 Hz		
	0145947	GH15MT-3-00A	\$376.00	3	-	_	110-120 VAC 50-60 Hz / 110 VDC		
	GH15MT	GH15MT-3-00B	\$376.00	3	-	_	220-240 VAC 50-60 Hz		
	GH15NT	GH15NT-3-00A	\$498.00	3	_	_	110-120 VAC 50-60 Hz / 110 VDC		
110 mm	014507	GH15PT-3-00A	\$603.00	3	-	_	110-120 VAC 50-60 Hz / 110 VDC		
	GH15PT	GH15PT-3-00B	\$603.00	3	-	-	220-240 VAC 50-60 Hz / 220 VDC		
	GH15RT	GH15RT-3-00A	\$751.00	3	_	_	110-120 VAC 50-60 Hz / 110 VDC		
	GH15ST	GH15ST-3-00A	\$801.00	3	_	_	110-120 VAC 50-60 Hz / 110 VDC		
145 mm	014577	GH15TT-3-00A	\$1,065.00	3	-	-	110-120 VAC 50-60 Hz / 110 VDC		
	GH15TT	GH15TT-3-00B	\$1,065.00	3	-	_	220-240 VAC 50-60 Hz / 220 VDC		

* Up to 2 auxiliary contact blocks may be added to the contactor by utilizing the side mount and top mount contact block assemblies. Though referred to as a top mount assembly, the GH15T mounts to the front of the contactor.

Note: If using the <u>BM0H</u> or <u>BM3H-AD</u> mechanical interlock, the use of auxiliary contacts is prohibited on the side of each contactor where the interlock is mounted. This does not pertain to the auxiliary contact built into the GH15BN, GH15CN and GH15DN contactors.

GH15 Series 45mm Contactor Specifications

	45mm C	onta	ctor Specif	ications			
Contactor Model			GH15BN	GH15CN	GH15DN	GH15ET	GH15FT
Insulation Voltage	600 Volts AC						
	AC Max. UL Continuous Current	(V) (A)	11	14	19	32	32
Ampere Rating UL 508	Max. UL General Use Current note 2	(A)	20	20	25	40	45
	200V	(hp)	2	3	3	7.5	7.5
Maximum Power (hp) of	230/240V	(hp)	3	3	5	7.5	10
Three-Phase Motors	460/480V	(hp)	5	7.5	10	15	20
	575V	(hp)	7.5	10	15	20	25
Maximum Power (hp) of	115V	(hp)	0.5	0.5	1	2	2
Single-Phase Motors	230/240V	(hp)	1	2	3	3	5
Insulation Voltage	AC	(V)			690 Volts AC		
Ammon Dating EN//EO 600.47	AC-3	(A)	9	12	16	25	32
Ampere Rating EN/IEC 60947	AC-1 l _e (ambient Temp = 40°C @ 690V)	(A)	30	30	30	45	50
	230/240V	(kW)	2.2	3	4	6.5	7.5
Maximum Power (kW) of Three-Phase Motors AC3 Category note 1	400V	(kW)	4	5.5	7.5	11	15
	440/480V	(kW)	4.7	6.4	9	12.5	16.5
	500V	(kW)	5.5	7.5	10	11	15
	690V	(kW)	5.5	7.5	7.5	11	15
Max Short Circuit Protection Fuses Class RK5 UL Rated Fuses	Type 2 Coordination note 3	(A)	25	30	50	60	70
SCCR Rating (kA)		kA	5	5	5	5	5
Auxiliary Contacts Electrical C	Capacity				A600 note 4		
Coil Voltage Operating Limits			AC Pick-up 8	AC Pick-up 85-110% rated control voltage / AC Drop-out 20-75% rated control voltage			
Average Coil Power Requirem Voltage	ents / Coil current (A) = VA/Co	il		AC Pick-Up (VA) 80-100 / AC Sea	aled (VA) 9-12	
Power Factor			Pick-up 0.65 / Sealed 0.35				
Coil Operating Time at Rated	Coil Voltage		Pick-up (ms) 10-25 / Drop-out (ms) 6-18				
Maximum Operating Frequenc	y (No-Load Operation)		3000 operations / hour				
Mechanical Durability				1	0,000,000 operatior	าร	
Operating Ambient Temperatu	re			-25	to +70C (-13 to +15	58F)	
Electrical Protection Degree				IP20 (I	P10 for power entry	cables)	
Mounting			Screw (panel mount) or 35mm DIN rail				
Main Circuit Connections	Wire Size		14-10 AWG Stranded 14-8 AWG Stranded				
	Tightening Torque			1.4 N·m (12 lb·in)		2.3 N·m	(20 lb∙in)
Auxilliary Circuit	Wire Size			16-12 AW	G Stranded / 14-12	AWG Solid	
Connections	Tightening Torque				0.8 N·m (7 lb·in)		

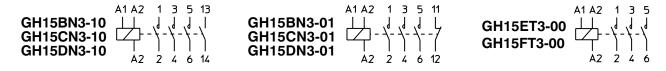
Notes

1. AC3 type loads consist of squirrel cage three phase motors.

2. AC1 non-inductive or slightly inductive loads. Typically resistive loads (i.e. furnaces, ovens, etc.)

3. Type 2 coordination is a protection category for IEC 60947-4-1. Section 8.2.5.1 specifies that Type 2 coordination requires that, under short circuit conditions, the contactor or starter shall cause no danger to persons or installations, and shall be suitable for further use. The risk of minor contact welding is possible.

Contactor Diagram



GH15 Series 60mm Contactor Specifications

	60mm Contactor	Spec	ifications		
Contactor Model			GH15GT	GH15HT	GH15JT
Insulation Voltage		600 Volts AC			
	Max. UL Continuous Current	(V) (A)	42	52	65
Ampere Rating UL 508	Max. UL General Use Current note 2	(A)	60	70	80
	200V	(hp)	10	15	15
Maximum Power (hp) of	230/240V	(hp)	10	15	20
Three-Phase Motors	460/480V	(hp)	25	30	40
	575V	(hp)	30	40	50
Maximum Power (hp) of	115V	(hp)	3	3	5
Single-Phase Motors	230/240V	(hp)	5	7.5	10
Insulation Voltage	AC	(V)		690 Volts AC	
Ammere Define EN//50 00047	AC-3 l _e (ambient Temp = 55°C @440V)	(A)	40	50	63
Ampere Rating EN/IEC 60947	AC-1 l _e (ambient Temp = 40°C @690V)	(A)	63	80	100
	230/240V	(kW)	11	12.5	18.5
	400V	(kW)	18.5	22	30
Maximum Power (kW) of Three-Phase Motors AC3 Category note 1	440/480V	(kW)	21	25	33
	500V	(kW)	18.5	22	30
	690V	(kW)	18.5	22	30
Max Short Circuit Protection Circuit Breaker UL Rated MCCB	Type 2 Coordination note 3	(A)	150	175	200
SCCR Rating (kA)		(kA)	5	5	5
Auxiliary Contacts Electrical Capacity			A600 note 4		
Coil Voltage Operating Limits			AC Pick-up 85-110% rated control voltage AC Drop-Out 20-75% rated control voltage		
Average Coil Power Requirements / Co	oil current (A) = VA/Coil Voltage		AC Pick-up (VA) 250 / AC Sealed (VA) 18		
Power Factor			Pick-up 0.54 / Sealed 0.35		
Coil Operating Time at Rated Coil Volta	age		Pick-up (ms) 12-30 / Drop-out (ms) 6-15		
Maximum Operating Frequency (No-Lo	ad Operation)		3000 operations / hour		
Mechanical Durability			10,000,000 operations		
Operating Ambient Temperature		-25 to +70C (- 13 to +158F)			
Electrical Protection Degree	IP20 (IP10 for power entry cables)				
Mounting	Screw (panel mount) or 35mm DIN rail				
Main Circuit Connections	Wire Size			12-3 AWG stranded	
	Tightening Torque		5.0 N·m (45 lb·in)		
Auxilliany Circuit Connections	Wire Size		16-	12 AWG (stranded recommer	nded)
Auxilliary Circuit Connections	Tightening Torque			0.8 N·m (7 lb·in)	

Notes

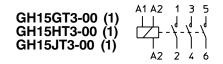
1. AC3 type loads consist of squirrel cage three phase motors.

2. AC1 non-inductive or slightly inductive loads. Typically resistive loads (i.e. furnaces, ovens, etc.)

3. Type 2 coordination is a protection category for IEC 60947-4-1. Section 8.2.5.1 specifies that Type 2 coordination requires that, under short circuit conditions, the contactor or starter shall cause no danger to persons or installations, and shall be suitable for further use. The risk of minor contact welding is possible.

4. NEMA ICS 5-2000. For more information, refer to Control Circuit Contact Electrical Ratings.

Contactor Diagram



1-800-633-0405

GH15 Series 79mm Contactor Specifications

	79mm Conta	ctor 5	pecifications	1		
Contactor Model			GH15KT	GH15LT	GH15MT	
Insulation Voltage	AC	(V)		600 Volts AC		
Ampere Rating UL 508	Max. UL Continuous Current	(A)	90	90	120	
Ampere Rating OL 500	Max. UL General Use Current note 2	(A)	90	100	120	
	200V	(hp)	20	25	30	
Maximum Power (hp) of Three-Phase	230/240V	(hp)	25	30	40	
Motors	460/480V	(hp)	50	60	75	
	575V	(hp)	60	75	100	
Maximum Power (hp) of Single-Phase	115V	(hp)	5	7.5	10	
Motors	230/240V	(hp)	15	15	20	
Insulation Voltage	AC	(V)		1000 Volts AC		
America Dation EN//EQ 600.47	AC-3 l _e (ambient Temp = 55°C @440V)	(A)	80	95	110	
Ampere Rating EN/IEC 60947	AC-1 l _e (ambient Temp = 40°C @690V)	(A)	125	125	135	
	230/240V	(kW)	22	25	30	
	400V	(kW)	37	45	55	
Maximum Power (kW) of Three-Phase Motors AC3 Category note 1	440/480V	(kW)	45	51	63	
motors ACS Category note 1	500V	(kW)	45	51	55	
	690V	(kW)	45	51	55	
Max Short Circuit Protection Fuses Class RK5 UL Rated Fuses	Type 2 Coordination note 3	(A)	250	250	225	
SCCR Rating (kA)		(kA)	10	10	10	
Auxiliary Contacts Electrical Capacity	·		A600 note 4			
Coil Voltage Operating Limits			AC/DC Pick-up 85-110% rated control voltage AC/DC Drop-Out 20-75% rated control voltage			
Average Coil Power Requirements / Co	bil current (A) = VA/Coil Volta	nge	AC Pick-up (VA) 250 / AC Sealed (VA) 18		AC Pick-up (VA) 250 AC Sealed 24-125V (VA) 4 AC Sealed 220-600V (VA) 19	
Power Factor			Pick-up 0.54	Pick-up 0.54 / Sealed 0.35		
Coil Operating Time at Rated Coil Volta	age		Pick-up (ms) 12-30	Pick-up (ms) 12-30 / Drop-out (ms) 6-15		
Maximum Operating Frequency (No-Lo	ad Operation)			3000 operations / hour		
Mechanical Durability			10,000,000 operations			
Operating Ambient Temperature		-25 to +70C (- 13 to +158F)				
Electrical Protection Degree	IP20 (Front)					
Mounting				Screw (panel mount)		
Main Circuit Connections	Wire Size		1	0-2 AWG Stranded (1 or 2 wir	es)	
	Tightening Torque			8.0 N·m (70 lb·in)		
Auxilliary Circuit Connections	Wire Size		2 x 16-1	2 AWG Stranded / 2 x 14-12 A	AWG Solid	
	Tightening Torque			0.8 N·m (7 lb·in)		

Notes

1. AC3 type loads consist of squirrel cage three phase motors.

2. AC1 non-inductive or slightly inductive loads. Typically resistive loads (i.e. furnaces, ovens, etc.)

3. Type 2 coordination is a protection category for IEC 60947-4-1. Section 8.2.5.1 specifies that Type 2 coordination requires that, under short circuit conditions,

the contactor or starter shall cause no danger to persons or installations, and shall be suitable for further use. The risk of minor contact welding is possible.

4. NEMA ICS 5-2000. For more information, refer to Control Circuit Contact Electrical Ratings.

Contactor Diagram

GH15KT-3-00

GH15 Series 110mm Contactor Specifications

	110mm Contacto	r Spe	cifications		
Contactor Model			GH15NT	GH15PT	
Insulation Voltage	AC	(V)	600 Vc	Its AC	
	Max. UL Continuous Current		180	180	
Ampere Rating UL 508	Max. UL General Use Current note 2	(A)	180	220	
	200V	(hp)	40	50	
Maximum Power (hp) of Three-Phase	230/240V	(hp)	50	60	
Motors	460/480V	(hp)	100	125	
	575V	(hp)	125	150	
Maximum Power (hp) of	115V	(hp)	15	15	
Single-Phase Motors	230/240V	(hp)	25	30	
Insulation Voltage	AC	(V)	1000 V	olts AC	
Ammong Boding 51///50 600.47	AC-3 l _e (ambient Temp = 55°C @440V)	(A)	150	175	
Ampere Rating EN/IEC 60947	AC-1 l _e (ambient Temp = 40°C @690V)	(A)	230	250	
	230/240V	(kW)	40	50	
	400V	(kW)	75	90	
Maximum Power (kW) of Three-Phase Motors AC3 Category note 1	440/480V	(kW)	85	100	
motors ACS Category note 1	500V	(kW)	90	110	
	690V	(kW)	110	132	
Max Short Circuit Protection Fuses Class RK5 UL Rated Fuses	Type 2 Coordination note 3	(A)	300	350	
SCCR Rating (kA)		(kA)	10	10	
Auxiliary Contacts Electrical Capacity			A600 note 4		
Coil Voltage Operating Limits			AC/DC Pick-up 85-110% rated control voltage AC/DC Drop-Out 20-75%rated control voltage		
Average Coil Power Requirements / Coil	l current (A) = VA/Coil Voltage		AC Pick-up (VA) 350	/ AC Sealed (VA) 5	
Power Factor			Pick-up 0.98	Sealed 0.98	
Coil Operating Time at Rated Coil Voltag	ye		Pick-up (ms) 30-60 / Drop-out (ms) 30-80		
Maximum Operating Frequency (No-Loa	d Operation)		1200 opera	tions / hour	
Mechanical Durability			10,000,000	operations	
Operating Ambient Temperature		-25 to +70C (-	13 to +158F)		
Electrical Protection Degree		IP00 -	IP20		
Mounting		Screw (par	nel mount)		
Main Circuit Connections with Terminal	Wire Size		2 x 4/0 AWG Stranded / 1 x 4/0 AWG Solid		
Kit MR3-AD	Tightening Torque		17 N·m (150 lb·in)		
Auxilliary Circuit Connections	Wire Size		2 X 5-4/0 AV	/G Stranded	
Auximary Circuit Connections	Tightening Torque		0.8 N·m	(7 lb·in)	

Notes

1. AC3 type loads consist of squirrel cage three phase motors.

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3. Type 2 coordination is a protection category for IEC 60947-4-1. Section 8.2.5.1 specifies that Type 2 coordination requires that, under short circuit conditions, the contactor or starter shall cause no danger to persons or installations, and shall be suitable for further use. The risk of minor contact welding is possible. 4. NEMA ICS 5-2000. For more information, refer to Control Circuit Contact Electrical Ratings.

Contactor Diagram

GH15NT-3-00 GH15PT-3-00

GH15 Series 145mm Contactor Specifications

	145mm Contact	or Sp	ecifications		
Contactor Model			GH15RT	GH15ST	GH15TT
Insulation Voltage	AC	(V)		600 Volts AC	
	Max. UL Continuous Current	(A)	250	300	360
Ampere Rating UL 508	Max. UL General Use Current note 2	(A)	250	300	360
	200V	(hp)	60	75	100
Maximum Power (hp) of Three-Phase	230/240V	(hp)	75	100	125
Motors	460/480V	(hp)	150	200	250
	575V	(hp)	200	250	300
Maximum Power (hp) of Single-Phase Motors	230/240V	(hp)	40	50	50
Insulation Voltage	AC	(V)		1000 Volts AC	
Ampere Rating EN/IEC 60947	AC-3 l _e (ambient Temp = 55°C @440V)	(A)	210	260	315
Ampere Raung Ewiec 00947	AC-1 l _e (ambient Temp = 40°C @690V)	(A)	350	450	500
	230/240V	(kW)	60	75	90
Maximum Power (kW) of Three-Phase Motors AC3 Category note 1	400V	(kW)	110	132	160
	440/480V	(kW)	125	150	190
	500V	(kW)	132	160	210
	690V	(kW)	132	160	210
Max Short Circuit Protection Fuses Class RK5 UL Rated Fuses	Type 2 Coordination note 3	(A)	400	450	500
SCCR Rating (kA)		(kA)	18	18	18
Auxiliary Contacts Electrical Capacity			A600 note 4		
Coil Voltage Operating Limits			AC/DC Pick-up 85-110% rated control voltage AC/DC Drop-Out 20-75% rated control voltage		
Average Coil Power Requirements / Co	oil current (A) = VA/Coil Voltage		AC Pick-up (VA) 360 / AC Sealed (VA) 5		
Power Factor			Pick-up 0.98 / Sealed 0.98		
Coil Operating Time at Rated Coil Volta	ige		Pick-up (ms) 40-60 / Drop-out (ms) 40-60		
Maximum Operating Frequency (No-Lo	ad Operation)			1200 operations / hour	
Mechanical Durability			8,000,000 operations		
Operating Ambient Temperature		-25 to +70C (- 13 to +158F)			
Electrical Protection Degree		IP20 (Front)			
Mounting	Screw (panel mount)				
Main Circuit Connections with	Wire size		2 x 6	-300 MCM (75° copper wire	only)
Terminal Kit KAL-4	Tightening Torque		31 N·m (275 lb·in)		
Auxilliary Circuit Connections	Wire Size		16-12 AWG Stranded / 14-12 AWG Solid		
	Tightening Torque		0.8 N·m (7 lb·in)		

Notes

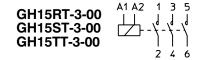
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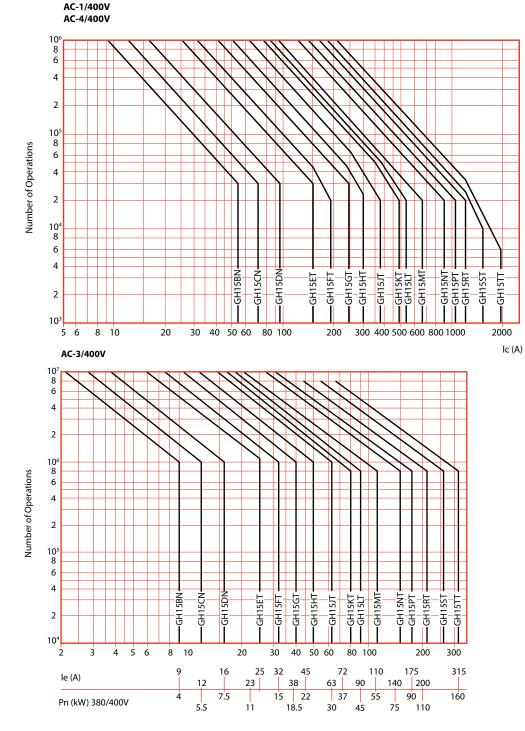
4. NEMA ICS 5-2000. For more information, refer to Control Circuit Contact Electrical Ratings.

Contactor Diagram



GH15 Series Contactor Electrical Durability of Main Contacts

Main contacts have a conductor material support, on which a silver alloy tip is welded. This tip makes, carries and breaks the load currents. The contact durability is represented by the average number of operations which the contact can carry out without maintenance and before the contact requires replacement. Every operation involves mechanical stresses when the contactor closes and thermal stress during load current conduction. However, the main stress that affects contact durability is due to the electric arc betweeen contacts during making and breaking operations. The electric arc causes the erosion of the contact active material; such erosion will increase according to the intensity of the current and the arcing time. Therefore the contact durability is strictly dependent on the type of load, i.e. on the utilization category, rated operational current and rated voltage. The following diagrams give curves of contact durability for each contactor for use in category AC-1, AC-3 and AC-4.



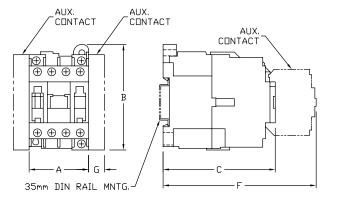
Note: Average durability curves are at 400V. For higher operational voltages, reduce the durability according following table.

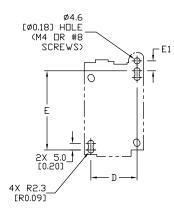
Electrical Durability Curve Adjustment for Voltages Over 400V							
	AC-1 / AC-4	AC-3					
400V	0%	0%					
440V	10%	5%					
500V	20%	10%					
690V	40%	20%					

1-800-633-0405 For the latest prices, plo

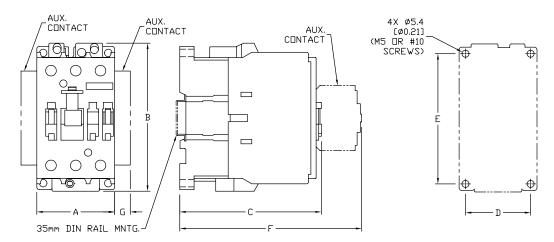
	Dimensions mm [inches]									
Contactor	Wide	High	Deep			Mounting			Product Weight	
Model	A	В	С	D	E	E1	F	G	kg [lb]	
GH15BN										
GH15CN	45.0 [1.77]	80.0 [3.15]	85.0 [3.35]	35.0 [1.38]	60.0 [2.36]	7.5 [0.30]	116.0 [4.57]	12.0 [0.47]	0.41 [0.90]	
GH15DN										
GH15ET	45 0 [4 77]	90.0 [2.45]	01 0 [2 59]	25 0 14 201	60 0 (0 26)	7 5 10 201	100 0 [4 90]	10.0 [0.47]	0 47 [4 04]	
GH15FT	45.0 [1.77]	80.0 [3.15]	91.0 [3.58]	35.0 [1.38]	60.0 [2.36]	7.5 [0.30]	122.0 [4.80]	12.0 [0.47]	0.47 [1.04]	
GH15GT										
GH15HT	60.0 [2.36]	114.0 [4.49]	109.0 [4.29]	50.0 [1.97]	100.0 [3.94]	_	140.0 [5.51]	12.0 [0.47]	1.12 [2.47]	
GH15JT										
GH15KT	70 0 [2 11]	127.0 (5.20)	120 0 15 121	70.0 [2 76]	100 0 [2 04]		161.0 [6.24]	12.0 [0.47]	1 90 [2 07]	
GH15LT	79.0 [3.11]	137.0 [5.39]	130.0 [5.12]	70.0 [2.76]	100.0 [3.94]		161.0 [6.34]	12.0 [0.47]	1.80 [3.97]	
GH15MT	79.0 [3.11]	162.0 [6.38]	130.0 [5.12]	70.0 [2.76]	100.0 [3.94]	—	161.0 [6.34]	12.0 [0.47]	2.20 [4.85]	
GH15NT	110.0 [4 22]	170.0 [6 60]	162.0 [6.20]	100 0 12 041	120.0 [5 12]		102 0 [7 50]	12.0 [0.47]	100 10 001	
GH15PT	110.0 [4.33]	170.0 [6.69]	162.0 [6.38]	100.0 [3.94]	130.0 [5.12]		193.0 [7.59]	12.0 [0.47]	4.00 [8.82]	
GH15RT										
GH15ST	145.0 [5.71]	200.0 [7.87]	208.0 [8.19]	120.0 [4.72]	160.0 [6.30]	—	239.0 [9.41]	12.0 [0.47]	7.50 [16.53]	
GH15TT										

GH15BN, GH15CN, GH15DN, GH15ET, GH15FT





GH15GT, GH15HT, GH15JT

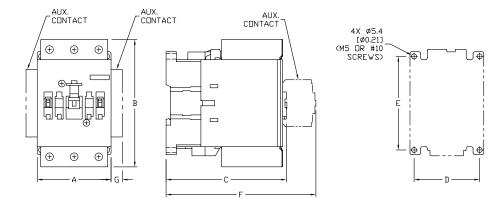


1-800-633-0405 For the latest prices, ple

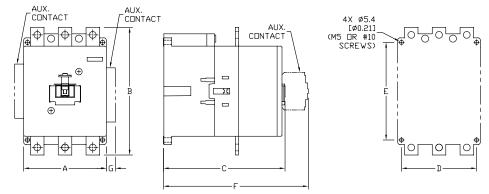
Dimensions

mm [in]

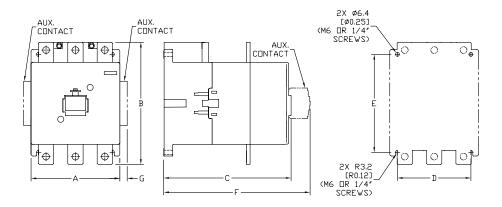
GH15KT, GH15LT, GH15MT



GH15NT and GH15PT

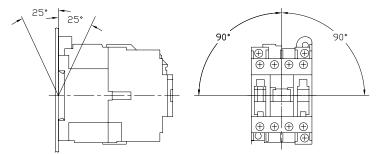


GH15RT, GH15ST, GH15TT



GH15 Series Mounting Positions

The correct mounting poistion is with the base plate in the vertical plane. The device can be mounted up to 25° from the vertical position.



1-800-633-0405 For the latest prices, ple GH15 Series Contactor Accessories

Auxiliary contacts

Auxiliary contacts are designed for installation on all the GH15 series contactors. The snap-on design makes them quick and easy to install. The bifurcated contact blocks feature silver nickel alloy contacts.

Add up to 2 side-mounted auxiliary blocks (1 per side) plus 1 top-mounted auxiliary contact block per contactor max. This will equal up to 8 possible auxiliary contact configurations.

Auxiliary Contacts									
Part Number	Price	Description	Mounting						
<u>GH15T11</u>	\$21.00	1 NO 1 NC	Тор						
<u>GH15T22</u>	\$27.50	2 NO 2 NC	Тор						
<u>GH15T31</u>	\$27.50	3 NO 1 NC	Тор						
<u>GH15T40</u>	\$27.50	4 NO	Тор						
<u>GH15S11</u>	\$24.00	1 NO 1 NC	Side						

Contacts rated A600 per NEMA ICS 5-2000. For more info, refer to Control Circuit Contact Electrical Ratings.

Note: See contactor drawings page for dimensions

Auxiliary Contact Blocks



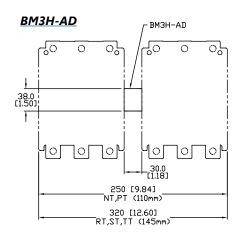
GH15 Series Contactor Accessories

Mechanical Interlock

Mechanical interlocks connect two contactors horizontally. When one contactor is energized, the other contactor is mechanically prohibited from making, even though it may be energized. The mechanical interlocks work with 45, 60, 79, 110 and 145 mm contactors.

	Mechanical Interlock									
Part Number	Price	Description	Mounting							
<u>BM0H</u>	\$13.00	Mechanical interlock, for use with GH15BN, GH15CN, GH15DN, GH15ET, GH15FT, GH15GT, GH15HT, GH15JT, GH15KT, GH15LT, or GH15MT series contactors.	Side							
<u>BM3H-AD</u>	\$33.00	Mechanical interlock, for use with GH15NT, GH15PT, GH15RT, GH15ST or GH15TT series contactors.	Side							

1 58.0 (2.28) 105.0 [4.13] ■N,CN,DN,ET,FT (45mm) 135.0 [5.31] GT,HT,JT (60mm) 173.0 [6.81] T,JT (60mm) 173.0 [6.81] T,JT (60mm)



BMOH / BM3H-AD



PRT3-AD

PR37-AD

Terminal Screens

BMOH

Terminal screens are for use with contactors and thermal overload relays to protect against accidental contact with live components.

	Terminal Screens*									
Part Number	Price	Quantity	Description	Use With						
<u>PR37-AD</u>	\$33.00	1 screen	Terminal screen, top or bottom, covers 3 poles. Use on line or load side. Mounting hardware included.	GH15NT GH15PT						
<u>PRT3-AD</u>	\$33.00	1 screen	Terminal screen, top or bottom, covers 3 poles. Use on line or load side. Mounting hardware included.	GH15RT GH15ST GH15TT						

* No additional protecting device is required for contactors up to IEC Size 79mm since the equipment by itself ensures IP20 frontal protection. Note: Not for use with MR3-AD and KAL-4. See product insert for connections.

	Terminal Lug									
Part Number	Price	Quantity	Description	Use With						
<u>MR3-AD</u>	\$15.50	1	Terminal lug, 1-pole, can hold (2) wires 5 AWG - 4/0 AWG.	GH15NT GH15PT RTD180						
<u>KAL-4</u>	\$27.50	1	Terminal lug, 1-pole, can hold (1) wire 6 AWG - 300 MCM. Mounting hardware included.	GH15RT GH15ST GH15TT RTD320						

<u>MR3-AD</u>





<u>KAL-4</u>



Automatio

Adjustable Overloads For GH15 Series Contactors

The RTD series adjustable motor overload relays are designed for use with the GH15 Series 45 mm, 60 mm, 79 mm, 110 mm, and 145 mm contactors.

By combining the contactor with an overload relay, you have a reliable motor starter solution.

RTD32 overload relays for 45mm contactors

- 16 sizes for motor currents from 0.4 to 32 amps
- Units come with (1) N.O. and (1) N.C. auxiliary contacts
- Mount directly to 45mm contactors
- Class 10A trip class
- cULus listed, CE

RTD65 overload relays for 60mm contactors

- Four sizes for motor currents from 20 to 65 amps
- Units come with (1) N.O. and (1) N.C. auxiliary contacts
- Mount directly to 60mm contactors
- Class 10A trip class
- cULus listed, CE

RTD180 overload relays for 79mm and 110mm contactors

- 3 sizes for motor currents from 60 to 180 amps
- Units come with (1) N.O. and (1) N.C. auxiliary contacts
- Mount directly to 110mm contactors with connection links (included)
- Hard-wire connection to 79 mm contactors (No connection links available)
- Class 10A trip class
- cULus listed, CE

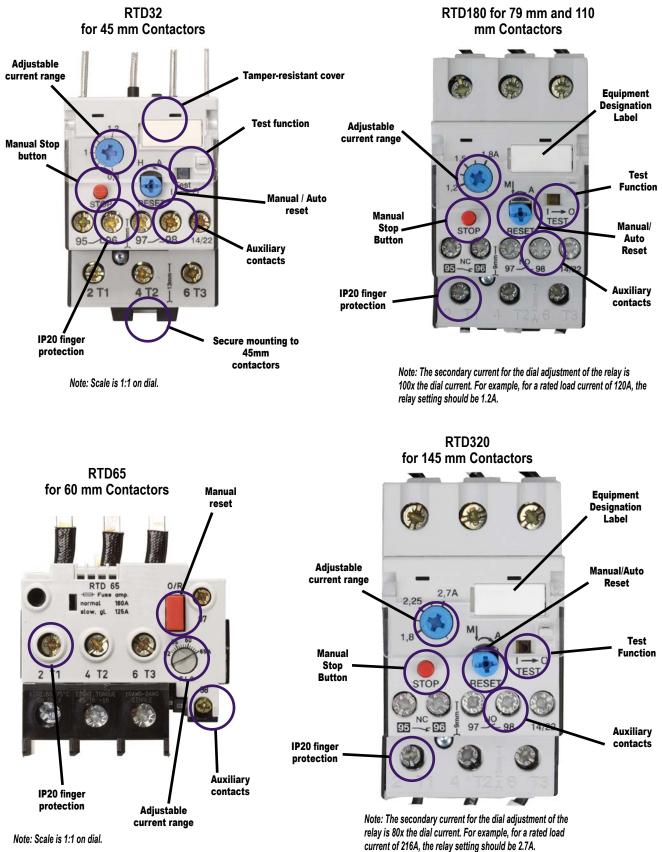
RTD320 overload relays for 145mm contactors

- 2 sizes for motor currents from 144 to 320 amps
- Units come with (1) N.O. and (1) N.C. auxiliary contacts
- Mount directly to 145mm contactors with connection links (included)
- Class 10A trip class
- cULus listed, CE





1-800-633-0405 GH15 Series Adjustable Overload Relay Features



Note: Additional Black Loadside Terminal Block is available on RTD65-5200 and RTD65-6500 only.

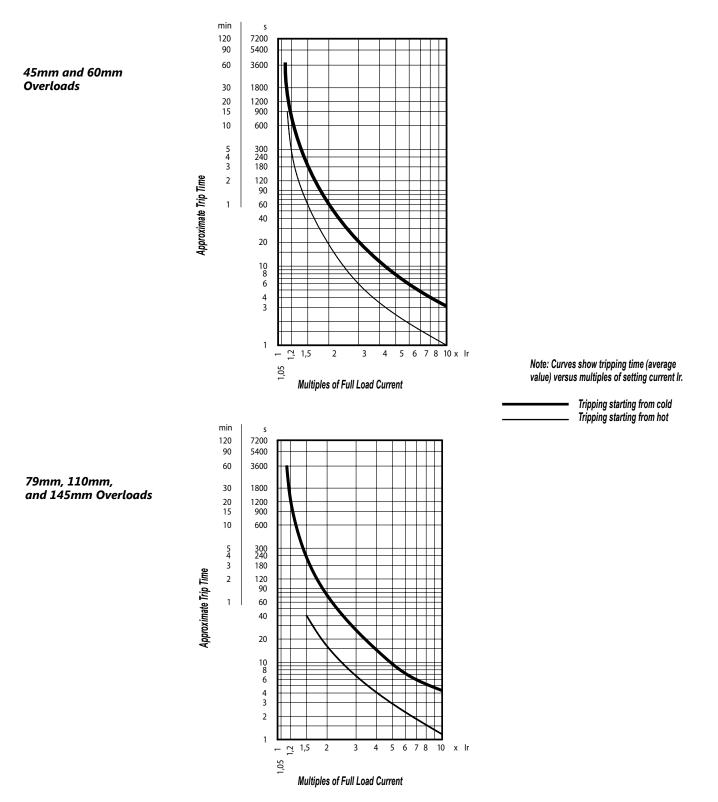
1-800-633-0405 **GH15 Series Overload Relay Selection Guide**

- Step 1 Determine the motor FLA and service factor listed on the motor name plate. Next, calculate the size overload protection required based on 2005 NEC 430.32. Select your motor's FLA (Full Load Amperage) from Column A. Tripping current occurs at 125% of FLA in column A.
- Step 2 Follow across to Column B to find your contactor size. Check the maximum amperage rating for that contactor. Ranges overlap and you may have to go to the next larger size.
- Step 3 After selecting your contactor, follow across to Column C to find your overload relay model number.
- Step 4 Order the contactor and overload relay, any desired auxiliary contacts, then assemble and install your motor starter.

Motor Contactor and Overload Relay Selection Guide (When Motor FLA is Known)									
А	В	С	Price	IEC Contactor Frame Size					
Current Range Motor FLA	Contactor Model	Overload Relay	Price						
0.4 to 0.6A		RTD32-60	\$81.00						
0.6 to 0.9A		RTD32-90	\$81.00						
0.8 to 1.2A		RTD32-120	\$81.00						
1.2 to 1.8A	CLITEDN up to movimum ELA of 04	RTD32-180	\$81.00						
1.8 to 2.7A	GH15BN up to maximum FLA of 9A	RTD32-270	\$81.00						
2.7 to 4.0A		RTD32-400	\$81.00						
4.0 to 6.0A		RTD32-600	\$81.00						
6.0 to 9.0A		RTD32-900	\$81.00	45mm					
8.0 to 11.0A	GH15CN up to 12A FLA	RTD32-1100	\$81.00	4011111					
10.0 to 14.0A	GHISCN UP to TZAFLA	<u>RTD32-1400</u>	\$87.00						
10.0 to 14.0A	GH15DN up to 16A FLA	RTD32-1400	\$87.00						
13.0 to 18.0A	GHISDN UP to TOAFLA	<u>RTD32-1800</u>	\$87.00						
13.0 to 18.0A		<u>RTD32-1800</u>	\$87.00						
17.0 to 24.0A	GH15ET up to 25A FLA	RTD32-2400	\$87.00						
22.0 to 32.0A		RTD32-3200	\$102.00						
22.0 to 32.0A	GH15FT up to 32A FLA	RTD32-3200	\$102.00						
20.0 to 28.0A		<u>RTD65-2800</u>	\$149.00						
28.0 to 42.0A	GH15GT up to 40A FLA	<u>RTD65-4200</u>	\$149.00						
28.0 to 42.0A		<u>RTD65-4200</u>	\$149.00	60mm					
40.0 to 52.0A	GH15HT up to 50A FLA	<u>RTD65-5200</u>	\$185.00	OOIIIII					
40.0 to 52.0A	GH15JT up to 63A FLA	<u>RTD65-5200</u>	\$185.00						
52.0 to 65.0A	GH1551 up to 65A FEA	<u>RTD65-6500</u>	\$185.00						
60.0 to 90.0A	GH15KT up to 80A FLA	RTD180-9000	\$261.00						
60.0 to 90.0A	GH15LT up to 95A FLA	RTD180-9000	\$261.00	79mm					
80.0 to 120.0A	GH15MT up to 110A FLA	RTD180-12000	\$332.00						
120.0 to 180.0A	GH15NT up to 150A FLA	RTD180-18000	\$356.00	110mm					
120.0 to 180.0A	GH15PT up to 175A FLA	RTD180-18000	\$356.00						
144.0 to 216.0A	GH15RT up to 210A FLA	RTD320-21600	\$413.00						
144.0 to 216.0A		RTD320-21600	\$413.00						
216.0 to 320.0A	GH15ST up to 260A FLA	RTD320-32000	\$413.00	145mm					
144.0 to 216.0A		RTD320-21600	\$413.00						
216.0 to 320.0A	GH15TT up to 315A FLA	RTD320-32000	\$413.00						

GH15 Series Contactors Overload Technical Characteristics

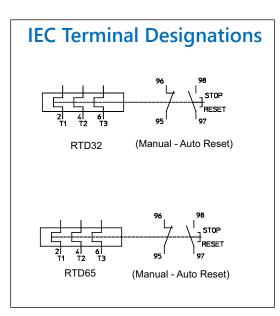
Typical Trip Curves



GH15 Series Contactors Overload Technical Characteristics

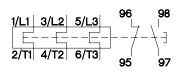
Thermal Overload Relays Specifications									
	RTD32	RTD65	RTD180	RTD180-18000	RTD320				
Storage temperature	-40 to +70°C (-40°F to 158°F)								
Operating temperature	-25 to +55°C (-13°F to 131°F)								
Tripping class IEC 60947-4-1	10A								
Phase loss sensitive	Yes								
Connection to contactor	Built-	in links	Pass through wire	Links for direct	Links for direct				
Frequency limits	0-40)0 Hz	50-60 Hz						
Power dissipation per phase	2.3 Watts	3.7 Watts (52-65 A) setting range: 4.5 W	3 W	5 Watts					
Short circuit current rating 600V	5kA rms								
Aux contacts wire range	14-10 AWG								
Aux contacts tightening torque	8.1 lb·in								

Overload Aux Contact Ratings									
Contact Rating Code Designation	Thermal	Maximum Current (Amps)							
	Continuous	120 Volt	240 Volt	480 Volt	600 Volt Make / Break				
	Current (Amps)	Make / Break	Make / Break	Make / Break					
95-96 (NC) B600	5	30 / 3	15 / 1.5	7.5 / 0.75	6 / 0.6				
97-98 (NO) C600	2.5	15 / 1.5	7.5 / 0.75	3.75 / 0.375	3 / 0.3				

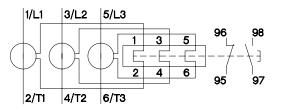


Wiring Diagrams

RTD32 / RTD65



RTD180 / RTD320

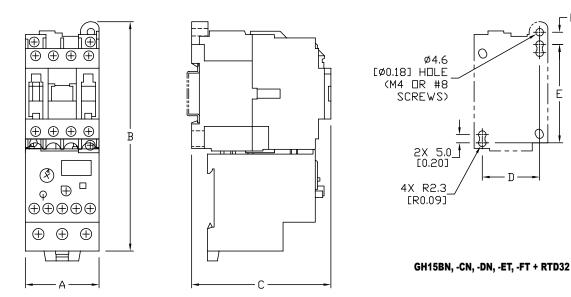


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1-800-633-0405 **GH15 Series Overload Relay Dimensions**

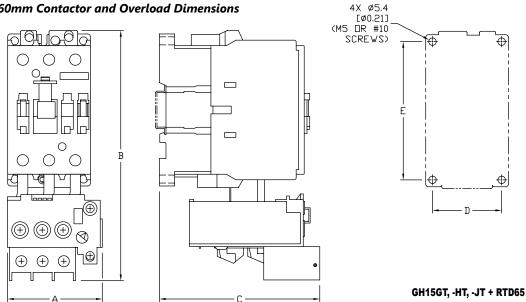
45mm Contactor and Overload Dimensions



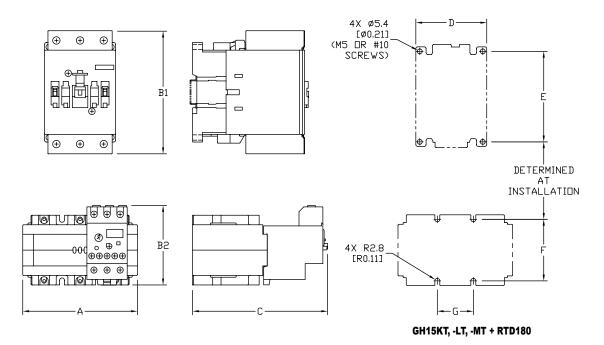
Overload Dimensions mm [in]													
Contactor Model	Overload	Width	Width Height			Depth D		D E	E1	F	•		,
	Model	A	В	B1	B2	C	U U	E	EI	r	G	H	1
GH15BN		45.0 [1.77]	146.0 [5.75]	_	_	85.0 [3.35]	35.0 [1.38]	60.0 [2.36]	7.5 [0.30]	-	-	-	-
GH15CN													
GH15DN	RTD32												
GH15ET													
GH15FT													
GH15GT		68.5 [2.70]	169.0 [6.65]	_	_	109.0 [4.29]	50.0 [1.97]	100.0 [3.94]	-	-	_	-	-
GH15HT	RTD65												
GH15JT		[2.70]											
GH15KT		ove	contactor and	137.0	81.0	130.0	70.0	100.0	_	_	68.0	40.0	_
GH15LT	RTD180 128.0 [5.04]		overloads do not	[5.39]	[3.19]								
GH15MT		have a link connector	162.0 [6.38]		[5.12]	[2.76]	[3.94]		_	[2.68]	[1.57]		
GH15NT	RTD180-18000	8000	290.0 [11.42]	_	-		100.0 [3.94]	130.0 [5.12]	-	42.5 [1.67]	68.0 [2.68]	40.0 [1.57]	-
GH15PT													
GH15RT		445.0				400.0	100.0						
GH15ST	RTD320	145.0 [5.71]	361.0 [14.21]	-		208.0 [8.19]	120.0 [4.72]	160.0 [6.30]	-	80.0 [3.15]	68.0 [2.68]	40.0 [1.57]	96.0 [3.78]
GH15TT		[0.7 1]	[17.21]	[י־-די]		[0.10]	[7.72]	[0.00]		[0.10]	[2.00]	[1.57]	[0.70]

1-800-633-0405 **GH15 Series Overload Relay Dimensions**

60mm Contactor and Overload Dimensions



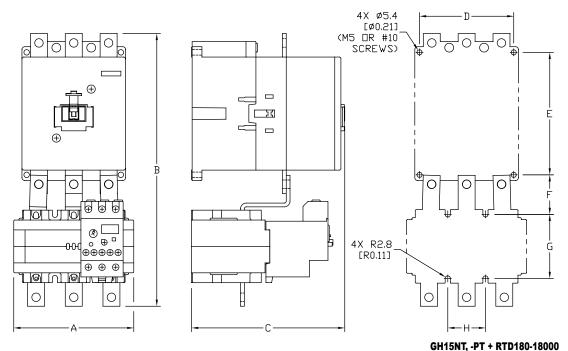
79mm Contactor and Overload Dimensions



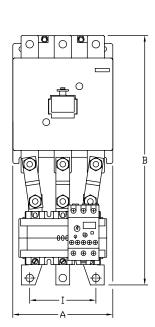
Note: See our website www.automationdirect.com for complete engineering drawings

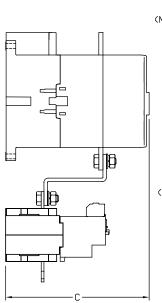
1-800-633-0405 **GH15 Series Overload Relay Dimensions**

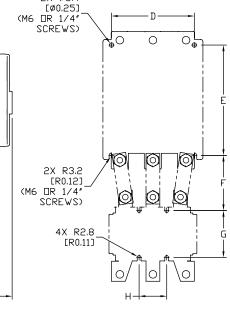
110mm Contactor and Overload Dimensions



145mm Contactor and Overload Dimensions







2X Ø6.4

GH15RT, -ST, -TT + RTD320

Note: See our website www.automationdirect.com for complete engineering drawings