

# Modifications List



The following chart provides a list of modifications which are available. For more details about these modifications, please refer to the following pages.

**Note:** If more than one modification is required on the same operator, please consult inside sales for compatibility and price.

- ✦ Standard feature with **BOARD 070E/M**
- Standard feature
- ▲ Available feature
- Ⓜ Note
- Ⓢ Consult inside sales
- E Electronic Control Type
- M Monitored Electronic Control Type
- O Electromechanical (Hardwired) Type

Description	Code	Control Type	Page	OMJ	OMH	OPJ	OPH	OHJ	OSH	OGH	MGH	MLT	OTH	OTH-A.00	OTBH	OTBH-A.00	OTBH-A.05	MGT	OSL	MGSL	PANEL
B2 operating mode	MOD 001	E/M/O	42	✦	✦	✦	✦	✦	✦	✦	✦	✦	✦	✦	✦	✦	✦	✦	✦	✦	✦
D1 operating mode	MOD 002	E/M/O	42	✦	✦	✦	✦	✦	✦	✦	✦	✦	✦	✦	✦	✦	✦	✦	✦	✦	✦
Delay on reverse	MOD 003	E/M	42	✦	✦	✦	✦	✦	✦	✦	✦	✦	✦	✦	✦	✦	✦	✦	✦	✦	✦
Delay on reverse, H-Duty	MOD 003	O	42			●	●	●	●	●	●		●	●	●	●	●	●	●	●	●
Delay on reverse, M-Duty	MOD 003	O	42	●	●							●									
Fail Safe Sens. Edge Circuit	MOD 004	O	42	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Mid-stop	MOD 005	E/M	43	✦	✦	✦	✦	✦	✦	✦	✦	✦	✦	✦	✦	✦	✦	✦	✦	✦	✦
Mid-stop	MOD 005	O	43			●	●	●	●	●	●		●	●	●	●	●	●	●	●	●
Mid-stop & SBC	MOD 006	O	43			●	●	●	●	●	●		●	●	●	●	●	●	●	●	●
Reverse limits	MOD 007	E/M/O	43	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Double limit switches	MOD 008	E/M/O	43	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Auxiliary Contact Block	MOD 009	O	43			●	●	●	●	●	●		●	●	●	●	●	●	●	●	●
Two door interlock	MOD 010	E/M/O	43	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Long dist. control wiring	MOD 011	O	43			●	●	●	●	●	●		●	●	●	●	●	●	●	●	●
Non-resettable counter, in	MOD 012	E/M/O	44,47			●	●	●	●	●	●		●	●	●	●	●	●	●	●	●
Non-resettable counter, door	MOD 012A	E/M/O	47			▲ 1	▲ 1	▲ 1	▲ 1	▲ 1	▲ 1		▲ 1	▲ 1	▲ 1	▲ 1	▲ 1	▲ 1	▲ 1	▲ 1	●
Timer to close (TTC)	MOD 013	E/M	44	✦	✦	✦	✦	✦	✦	✦	✦	✦	✦	✦	✦	✦	✦	✦	✦	✦	✦
Timer to close (TTC), Heavy	MOD 013	O	44,47			●	●	●	●	●	●		●	●	●	●	●	●	●	●	●
Timer to close (TTC), Med.	MOD 013A/B	O	44	●	●							●									
TTC for warning lights	MOD 014	O	44			●	●	●	●	●	●		●	●	●	●	●	●	●	●	●
TTC from mid-stop	MOD 015	E/M	44	✦	✦	✦	✦	✦	✦	✦	✦	✦	✦	✦	✦	✦	✦	✦	✦	✦	✦
TTC from mid-stop	MOD 015	O	44			●	●	●	●	●	●		●	●	●	●	●	●	●	●	●
Wiring for traffic lights	MOD 016A/B	E/M/O	45			●	●	●	●	●	●		●	●	●	●	●	●	●	●	●
Maximum run timer	MOD 017	E/M	45,47	✦	✦	✦	✦	✦	✦	✦	✦	✦	✦	✦	✦	✦	✦	✦	✦	✦	✦
Maximum run timer	MOD 017	O	45,47			●	●	●	●	●	●		●	●	●	●	●	●	●	●	●
Control circuit 120V/1Ph	MOD 019A	O	45			●	●	●	●	●	●		●	●	●	●	●	●	●	●	●
Control circuit >120V/1Ph	MOD 019B-E	O	45			●	●	●	●	●	●		●	●	●	●	●	●	●	●	●
Safepack, 24V	MOD 021A	O	45				Ⓜ		Ⓜ	●	●		●		●			●	●	●	
Panel NEMA1-1Ph/3Ph	MOD 022	E/M/O	47			▲ 1	▲ 1	▲ 1	▲ 1	▲ 1	▲ 1	▲ 1	▲ 1	▲ 1	▲ 1	▲ 1	▲ 1	▲ 1	▲ 1	▲ 1	●
Cable markings, panel	MOD 023	E/M/O	47			▲ 1	▲ 1	▲ 1	▲ 1	▲ 1	▲ 1	▲ 1	▲ 1	▲ 1	▲ 1	▲ 1	▲ 1	▲ 1	▲ 1	▲ 1	●
Panel NEMA4-1Ph/3Ph	MOD 024	E/M	47			▲ 1	▲ 1	▲ 1	▲ 1	▲ 1	▲ 1	▲ 1	▲ 1	▲ 1	▲ 1	▲ 1	▲ 1	▲ 1	▲ 1	▲ 1	●
Panel NEMA4-1Ph/3Ph	MOD 024	O	47			▲ 1	▲ 1	▲ 1	▲ 1	▲ 1	▲ 1	▲ 1	▲ 1	▲ 1	▲ 1	▲ 1	▲ 1	▲ 1	▲ 1	▲ 1	●
Univ. aux. output module	MOD 027B	E/M	46			●	●	●	●	●	●		●	●	●	●	●	●	●	●	●
3PB for panel face	MOD 031	E/M/O	47			▲ 1	▲ 1	▲ 1	▲ 1	▲ 1	▲ 1		▲ 1	▲ 1	▲ 1	▲ 1	▲ 1	▲ 1	▲ 1	▲ 1	●
Rotary fuse disc., panel	MOD 032	E/M/O	47			▲ 1	▲ 1	▲ 1	▲ 1	▲ 1	▲ 1		▲ 1	▲ 1	▲ 1	▲ 1	▲ 1	▲ 1	▲ 1	▲ 1	●
Loop detector open, panel	MOD 033A	E/M/O	47			▲ 1	▲ 1	▲ 1	▲ 1	▲ 1	▲ 1		▲ 1	▲ 1	▲ 1	▲ 1	▲ 1	▲ 1	▲ 1	▲ 1	●
Loop detector sens., panel	MOD 033B	E/M/O	47			▲ 1	▲ 1	▲ 1	▲ 1	▲ 1			▲ 1	▲ 1	▲ 1	▲ 1	▲ 1	▲ 1	▲ 1	▲ 1	●
N1 to N4 M-photo upgr.	MOD 034	M	46	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
N1 to N4X M-photo upgr.	MOD 035	M	46	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
N4 to N4X M-photo upgr.	MOD 036	M	46	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●

Information subject to change without prior notice

# Modifications List

- ▲ 1 Available in conjunction with separate control panel
- ▲ 2 Available only with 1/2HP operators
- ▲ 3 Hoist on left, please consult inside sales
- ▲ 4 Comparative GH model is used
- ▲ 5 1-1/2HP 120V and 240V 1Ph operators, consult inside sales
- ▲ 6 Available only with 1/2HP - 2HP operators
- ▲ 7 Hoist can easily be moved to the left in the field
- ▲ 8 Available only with operators above 1/2HP

Description	Code	Control Type	Page	OMJ	OMH	OPJ	OPH	OHJ	OSH	OGH	MGH	MLT	OTH	OTH-A.00	OTBH	OTBH-A.00	OTBH-A.05	MGT	OSL	MGSL	PANEL	
Friction clutch, #50 chain	MOD 050	E/M/O	48							●	●											
Friction clutch, #60 chain	MOD 051	E/M/O	48							●	●											
Hoist on left hand side	MOD 053	E/M/O	48		●		●	●	●	▲ 7	▲ 7											
Double 4L v-belt	MOD 055	E/M/O	48										●		●							
Double Ax cogged v-belt	MOD 055A	E/M/O	48										●			●	●					
Disc-type solenoid brake	MOD 056	E/M/O	48									●										
Aux. trolley, #41 chain	MOD 060	E/M/O	49			●	●	●	●	●	●											
Dual aux. trolley, #41 ch.	MOD 061	E/M/O	49			●	●	●	●	●	●											
Dual trolley drive, #48 ch.	MOD 062	E/M/O	49										▲ 2		▲ 2							
Dual trolley drive, #41 ch.	MOD 063	E/M/O	49									▲ 8	●	▲ 8	●	●	●	●				
Trolley hoist, #48 chain	MOD 064	E/M/O	49									▲ 2	▲ 2									
Trolley hoist, #41 chain	MOD 065	E/M/O	49									▲ 8	●	▲ 8	●	●						
Chain hoist	MOD 066	E/M/O	50										●	●	●	●	●	●				
P.B. bearings, output, Opera	MOD 068	E/M/O	50			●	●	●	✓													
P.Block bearings, input	MOD 069	E/M/O	50										●	✓	●	✓	✓					
P.Block bearings, output	MOD 072	E/M/O	50										●	●	●	●	✓					
Front idler, heavy-duty	MOD 073	E/M/O	50									●	●	●	●	●	●	●				
Hand crank	MOD 074	E/M/O	50							●	●											
Motor 208V 1Ph 60Hz	MOD 076	E/M/O	50			●	●	●	●	●	●		●	●	●	●	●	●	●	●	●	●
Motor 240V 3Ph 60Hz	MOD 077	E/M/O	50			●	●	●	●	●	●		●	●	●	●	●	●	●	●	●	●
Minidepth modification	MOD 078	E/M/O	50										●	●	●	●	●					
Solenoid brake option	MOD 111	E/M/O	51			●																
Limit shaft speed-up	MOD 112	E/M/O	51	●	●	●	●	●	●	●												
Drum brake option, apart.	MOD 113	E/M/O	51												●	●	✓					
Synthetic oil upgr.	MOD 114	E/M/O	51							●	●							●		●		
Solenoid anti-vibration	MOD 121A	E/M/O	51						●						●	●	✓		●			
Motor anti-vibration mount	MOD 121B	E/M/O	51	●	●	●	●	●	●			●	●	●	●	●	●	●	●	●		
Trolley slow-down option	MOD 124	E/M/O	51										●	●	●	●	●	●				
Limit speed-up kit, #41 ch.	MOD 125	E/M/O	51								●											
Limit chain on left/right	MOD 126A/B	E/M/O	52	●	①	●	①	①	①		①											
Cogged v-belt upgr.	MOD 130	E/M/O	52						●				●	●	●	●	✓					
NP chain trolley, up to 14'	MOD 137	E/M/O	52									●	●	●	●	●	●	●	●	●	●	●
NP chain trolley, >14'	MOD 138	E/M/O	52									●	●	●	●	●	●	●	●	●	●	●
NP chain jackshaft	MOD 139	E/M/O	52	●	●	●	●	●	●	●	●											
<b>Environ.</b> TEFC motor upgr.	MOD 080	E/M/O	53			●	▲ 3		▲ 3	●	▲ 6		●	●	●	●	●	●	●	●	●	●
Damp-oil-dust tight N4/12	MOD 081	E/M/O	53			●	▲ 3		▲ 3	▲ 4	●		●	●	●	●	●	●	●	●	●	●
Hazardous location N7/9	MOD 082	0	53				①		①	▲ 4	●		●		●			●	●	●		
Corrosive environ. N4X	MOD 083	E/M/O	53						▲ 3,5	▲ 3,4,5	▲ 5		▲ 5	▲ 5	▲ 5	▲ 5	▲ 5	▲ 5	▲ 5	▲ 5	▲ 5	▲ 5

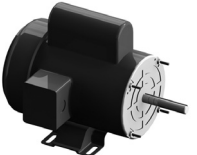



Modifications

# Environmental Modifications

The following modifications are designed for special types of applications or provide you with additional protective features. Please refer to the summary table on page 41 to verify the availability of a specific modification for a specific operator model.

**Note:** If more than one modification is required on the same operator, please consult inside sales for compatibility and price.

Please consult inside sales for additional modifications

Code	Description	Modifications
<b>MOD 080</b>	<p><b>TEFC Motor Upgrade</b> Totally-enclosed, fan-cooled motor replaces the standard open drip proof motor. For applications where the operator is installed in arduous conditions: dirt, high humidity rating, etc. <b>Note:</b> For OPH/OSH with hoist on left, please consult inside sales. <b>Applies to:</b> OPJ/OPH/OSH/OGH/OTH/OTH-A.00/OTBH/OTBH-A.00/OTBH-A.05/MGT/OSL/MGSL/MGH up to 2HP.</p>	 TEFC motor
<b>MOD 081</b>	<p><b>Damp Environment / Oil Tight / Dust Tight</b> For applications where dust, water spray, oil leaks or any other type of condensation is present. Includes: TEFC motor (totally-enclosed, fan-cooled motor), seal-tight conduit and connectors, NEMA 4/12 open/close/stop push-button station, NEMA 4/12 control box. <b>Note:</b> For OPH/OSH with hoist on left, please consult inside sales. <b>Note:</b> For OGH comparative model, use model: GHW. <b>Note:</b> For (M) version, also add (M) version upgr. + MOD034 (\$). <b>Applies to:</b> OPJ/OPH/OSH/OGH/MGH/OTH/OTH-A.00/OTBH/OTBH-A.00/OTBH-A.05/MGT/OSL/MGSL.</p>	 NEMA 4/12 - OPH
<b>MOD 082</b>	<p><b>Hazardous Location, Electromechanical Control Only</b> For Electromechanical Control "0" Type. For indoor use in hazardous (classified) locations. Includes: Electrical motor and junction box Class I Group D (suitable for both Divisions 1 and 2) and Class II Groups F and G (suitable for both Divisions 1 and 2), NEMA 7/9 control box, electrical connections from motor to control box consists of hazardous location certified fittings and NEMA 7/9 open/close/stop push-button station. ⚠ Certified by CSA for CSA C22.2 No 25, 30 and 247. <b>Note:</b> For OGH comparative model, use model: GHX. <b>Applies to:</b> OGH/MGH/OTH/OTBH/MGT/OSL/MGSL. For other models, please consult inside sales.</p>	 NEMA 7/9 - GH
<b>MOD 083</b>	<p><b>Corrosive Environment</b> For corrosive environment applications. Additional protective features have been included. Includes: TEFC or TENV motor with additive corrosion resistant features, NEMA 4X corrosion proof enclosure, NEMA 4X open/close/stop push-button station. <b>Note:</b> For OGH comparative model, use model: GHC. <b>Note:</b> For OPH/OSH with hoist on left, please consult inside sales. <b>Note:</b> For 1.5HP 120V and 240V 1Ph operators, please consult inside sales. <b>Note:</b> For (M) version, also add (M) version upgr. + MOD035 (\$). <b>Applies to:</b> OPJ/OPH/OSH/OGH/MGH/OTH/OTH-A.00/OTBH/OTBH-A.00/OTBH-A.05/MGT/OSL/MGSL.</p>	 NEMA 4X - OSH