SMARTLIMIT and SMARTSAFE Modules for CM Hoists

SMART modules provide additional functionality and safety features to 3-phase CM hoists. SMARTLIMIT converts a Low Voltage controlled Hoist to Direct Control, and SMARTSAFE corrects incoming power phase rotation errors.

SMARTLIMIT

Converts a Low Voltage control CM Hoist to Direct Control

Eliminates need for control cable, only three-phase power cable is required

Detects incoming phase and connects the relevant Contactor and Limit Switch, maintaining vital safety function.

Hoist can be controlled by Direct phase-reversing controllers such as DM4 or DM8

No power at the motor unless it is moving

Automatically detects and corrects for wrong incoming phase rotation in CM hoist

Maintains correct direction control of motor instead of stopping it working

Minimises potential for damage to truss due to incorrect or faulty hoist power cabling

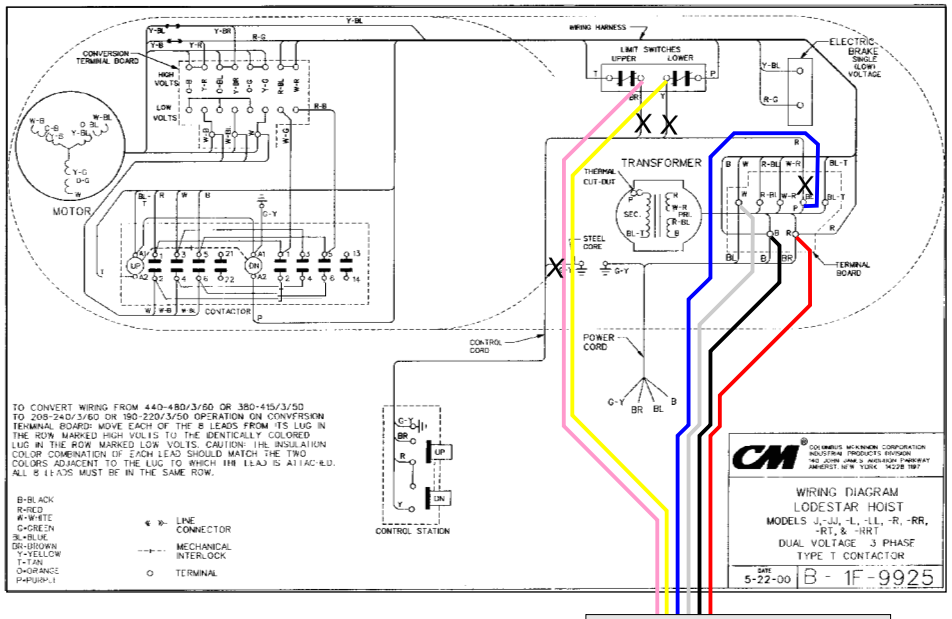
SMARTSAFE

SMART modules are supplied with ready to install cable assembly and are simple to fit in about 15 minutes

Modules shown approx actual size, 83 x 63 x 34mm

Designed and manufactured by:
Out Board Electronics, Mills & Douglas Building, Barrington Road, Orwell, Cambs, SG8 5QP, England. Tel: +44 (0)1223 208183 fax: +44 (0)1223 208190 www.outboard.co.uk

Fitting a SMARTLIMIT



CABLE	DESTINATION
RED	TRANSFORMER LUG:RED
BLACK	TRANSFORMER LUG:BLA
WHITE	TRANSFORMER LUG:WHI
BLUE	TRANSFORMER LUG:BLU
PINK	UPPER LIMIT SWITCH
YELLOW	LOWER LIMIT SWITCH

TERMINAL BOARD
RED Lug: RED
BLACK Lug:BLA
WHITE Lug:WHI
BLUE Lug: BLU
LIMITSWITCHES
PINK Upper
YELLOW Lower
Tested:_____Date:_____
SMARTLIMIT
out board

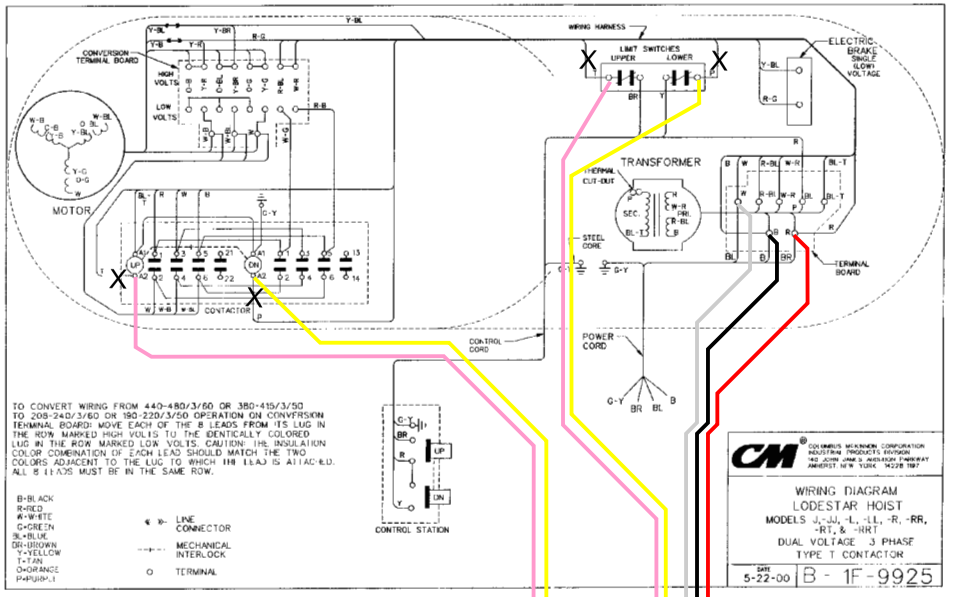
1/ Change over the wire links on the output of the contactor assembly So that 2 links to 2, 4 links to 4 and 6 links to 6.

2/ Remove direction control cable from motor. (Cables marked X)

3/ Fit loom assemble through motor from contactor to transformer terminal board.

4/ Make connection as instructed above.

Fitting a SMARTSAFE



CABLE	DESTINATION
RED	TRANSFORMER LUG:RED
BLACK	TRANSFORMER LUG:BLA
WHITE	TRANSFORMER LUG:WHI
BLUE	TRANSFORMER LUG:BLU
PINK	UPPER LIMIT SWITCH
YELLOW	LOWER LIMIT SWITCH
PINK	UP CONTACTOR
YELLOW	DOWN CONTACTOR

TERMINAL BOARD
RED Lug: RED
BLACK Lug: BLA
WHITE Lug: WHI
PINK Upper Limit
YELLOW Lower Limit
PINK Up Contactor
YELLOW Down Contactor
SMARTSAFE
Test:_____ Date:._____
out board
www.outboard.co.uk

1/ Remove the cable marked P that runs from lower limit switch to down contactor.

2/ Remove the cable marked T that runs from upper limit switch to up contactor.

3/ Fit loom assemble(red, black, white, pink and yellow) through motor from contactor to transformer terminal board. The other pink and yellow go to the contactors. Pink replacing T and yellow replacing P.

4/ Make connection as instructed above.

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Designed and manufactured by:

Dimensions: 83 x 63 x 34 mm Shipping Weight: 250g

High resolution Fitting Instructions are available at www.outboard.co.uk