



SPEED-O-CONTROLS
PVT. LTD.

CRANE CONTROL SOLUTIONS

LIMIT SWITCHES



DISCOVER OUR RANGE OF LIMIT SWITCHES

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GRAB DIFFERENTIAL LIMIT SWITCH

MODEL : DLS-40A



[\(CLICK HERE\)](#)

WEIGHT LIMIT SWITCH 60-150 AMP

MODEL : CWLS 60-150A



[\(CLICK HERE\)](#)

Introduction

The Grab differential Limit Switch is driven by holding and closing winches and used in auxiliary circuits for single lever grab control. It is used for stopping the closing motor after closing or opening, regardless of the height of the grab and starting the holding motor after closing, for transition to the hoisting actions as well as for stopping the hoisting actions as well as for stopping the holding and closing motors at the hoisting and lowest grab position.

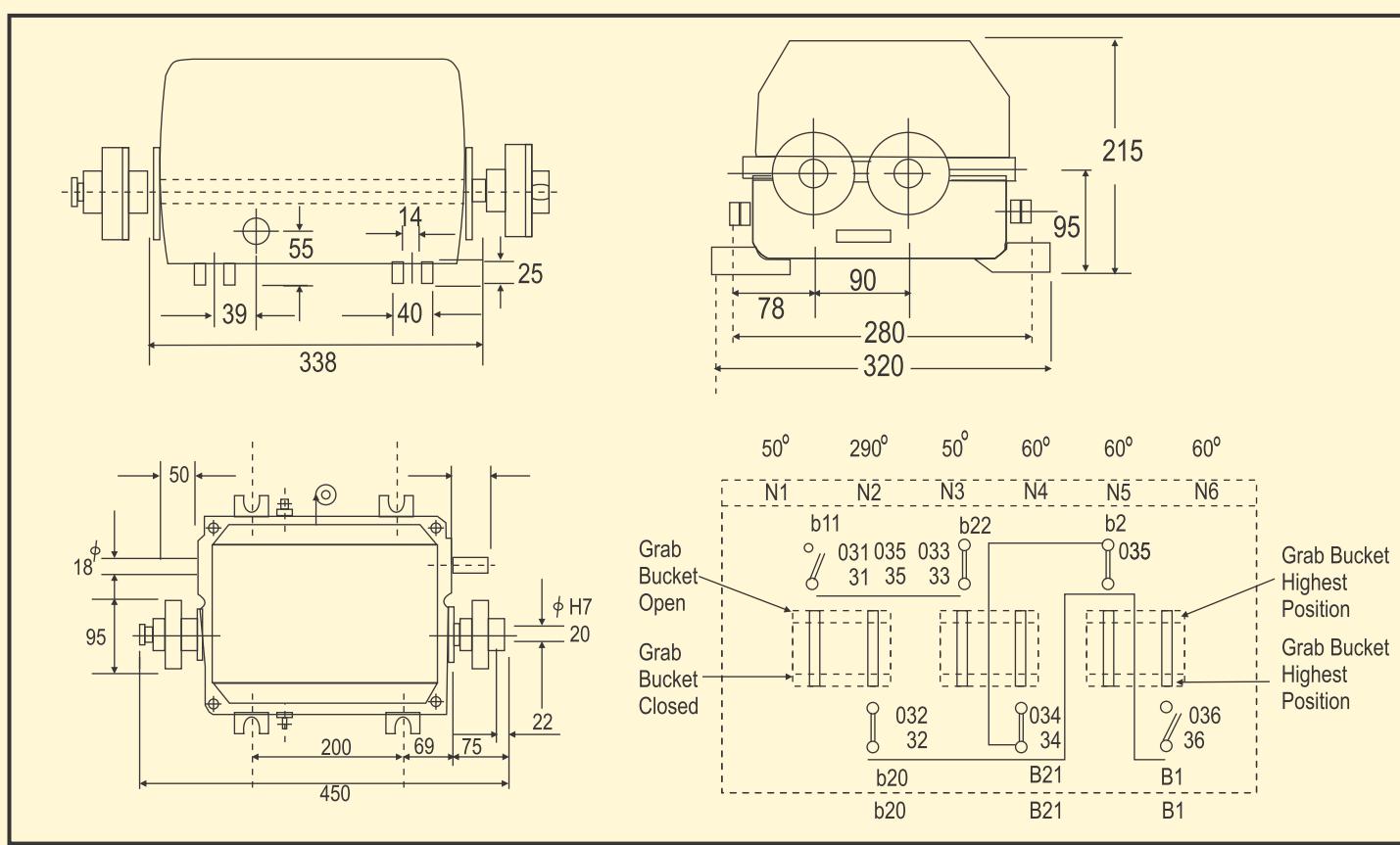


Construction

The switch contain six heavy duty cam operated switch elements which, are used as auxiliary circuit limit switches (see switching sequence diagram). The dimensional drawing shows that the switch has two shafts which must be driven by the holding and closing winches. The contacts of limit switches are 40 Amps rated at 500 V.A.C.

Mode of Operation

The switches N5,N6 are limit switches for the highest and lowest grab positions. The 'Grab closed' and 'Grab open' limit positions are monitored by the switches N1 and N4, whereas N2 and N3 initiate the switching operations for single lever grab control.



Introduction

Weight Operated Limit Switches are used on control / power circuit of reversing drives so as to limit their rotation / movement within a predetermined position. Complying to IEC/EN 60947-5-1, IEC/EN 60529, IEC 60068-2-78, IEC 60068-2-30.

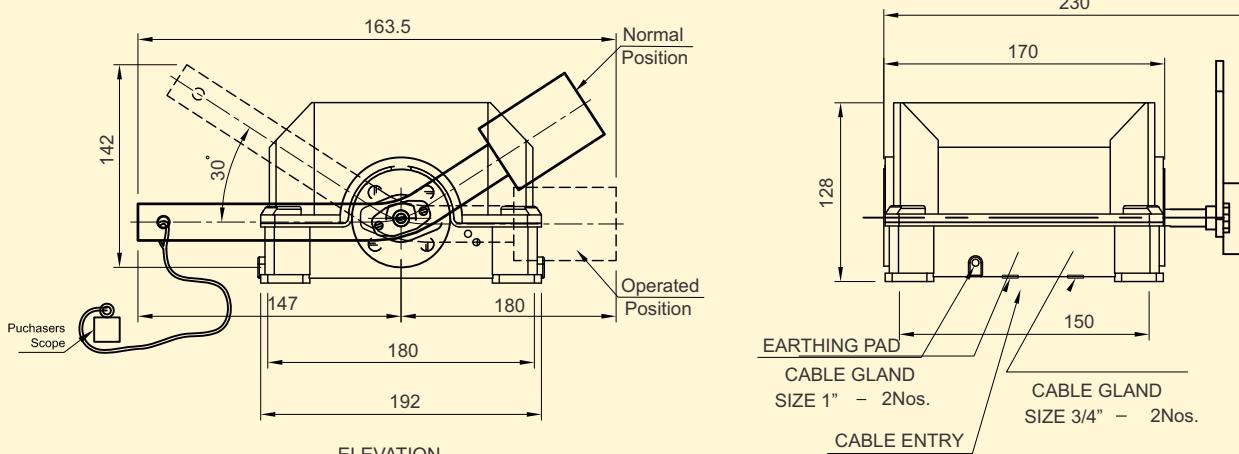


Technical Data

Body Material	Aluminum Die Cast
Protection Degree	IP-65 Confirming to (IS/IEC-60529(2001)
Mounting Position	Floor
Cable Entries	2 x 3/4", 2 x 1"
No. Of Contacts	4 NC
Contact Material	Silver Cadmium
Wire Connection	Screw Terminal
Rated voltage	500 V.A.C. Max
Thermal Test Current	150-200 Amps

Operation

When the snatch block of the crane reaches its top position the snatch block pushes a plate which is hanging from one end of the lever of the limit switch. Due to the weight placed on the other end of the lever this lever is pushed up. When the lever is pushed up the shaft to which this lever is connected rotates thereby rotating the cams which eventually open the contacts.



Switching Diagram

15°	30°	0°	15°	30°
X	X	X		
X	X	X	X	
	0	X		
	0	X		

CRANE CONTROL GEAR



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