



IIO Nm

Extra Heavy Duty Window Wiper

Low voltage systems ideal for average to high speed vessels

- Pantograph and pendulum
- Arms with blades up to 78ins. (2000mm) available for average speed vessels
- Arms with blades up to 59ins. (1500mm) available for high speed vessels
- Fixed arc or variable arc models
- 24 volt DC
- Two speeds
- Self parking facility
- Insulated earth return and EMC filter are standard
- Operated by various controls including a rotary switch, rocker switch or a multi-speed / function control system



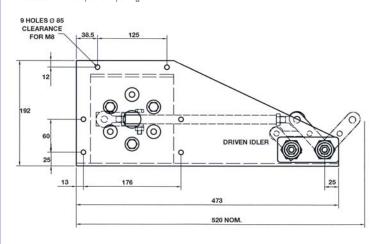


IIONm

Extra Heavy Duty Window Wiper

Low voltage systems ideal for average to high speed vessels

Illustration shows options of parking



Specifications

Standard Details 2 Speed; Self Parking; Insulated

Earth Return; 24v

Angles of Arc - Fixed

 45° to 90° (in 5° increments only) Pantograph Units Pendulum Units 45° to 115° (in 5° increments only) Spindle Centres Between Drive Liner & Idler = 60mm

Pantograph Units only

M26 - Brass Liner/I6mm SS Spindle **Drive Liner**

Pantograph & Pendulum Units

Liner Overall Length Bulkhead Thickness + 55mm

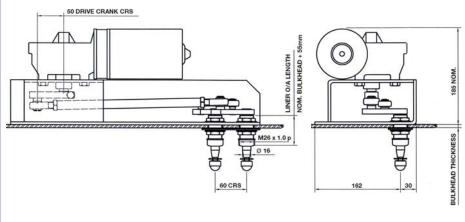
M26 - Brass Liner/I6mm SS Spindle Idler Liner

Pantograph Units only

L - Left Hand Bracket; R - Right Hand Bracket; Bracket

Unit Weight Allowing for the maximum arm and blade lengths; 9.2Kgs (20.0 lbs)

Illustration shows options of parking



Triple Linkage swept we offer a comprehensive range of swept area solutions utilising the 110Nm drive unit

operating either two or three arms and blades off one motor

This offers customers the benefit of simpler installations as well as cost saving.

Wiper Arms and Blades

■ Pantograph Arms

Heavy Duty P84

24" to 72" (610mm to 1830mm) nom Lengths

Drive Head 16mm Blade Clip 14mm & 20mm

■ Pendulum Arms

Heavy Duty

24" to 72" (610mm to 1830mm) nom Lengths

Drive Head 16mm Blade Clip 14mm

Heavy Duty

24" to 72" (610mm to 1830mm) nom Lengths

Drive Head 16mm Blade Clip 20mm

■ Blades

B140 Curved Blade

12" to 28" (310mm to 710mm) nom Lengths

For use with arm types

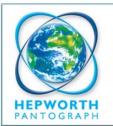
Pendulum Pantograph P84

B140 Curved Blade

Lengths 32" (810mm), 36" (915mm),

39" (1000mm)

Pendulum F81 Pantograph P84





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20/30/50/80/II0Nm

Electrical Details

Non-intermittent Rotary Switch 12v: 24v 10094800



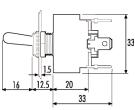




Wiring the Motor Unit to a Rotary Switch		
Motor	Switch	
31b (self park reversal feed)	position P	
53 (low speed)	position L	
53a (self park)	position B and	
	positive DC ship's supply	
53b (high speed)	position H	
31 (earth connection)	the negative ship's supply	
Washer Pump	position W	

Toggle Switch & Plate 12v: 24v 90041400

Dimensions: w20 h38







Wiring the Motor Unit to a Toggle Switch		
Moto	or	Switch
31b	(self park reversal feed)	position 8
53	(low speed)	position 4
53a	(self park)	position 6 and
		positive DC ship's supply
53b	(high speed)	position 2
31	(earth connection)	the negative ship's supply

Multi Speed Control Switch and Plate

12v - 90041000 24v - 90041100

Dimensions: w83 h66





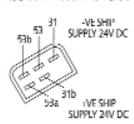
Wiring the Motor Unit to a Multi Speed Control Switch		
Moto	or	Switch
31b	(self park reversal feed)	to the BLUE wire
53	(low speed)	to the YELLOW wire
53a	(self park)	both RED wires and
		positive DC ship's supply
53b	(high speed)	to the WHITE wire
31	(earth connection)	to the BLACK wire
Was	her Pump	to BROWN wire

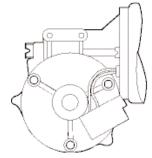
Multi-Function Wiper Switch

A Standard Rocker Size Switch, the Multi-Function Wiper Switch has all the functions of our Standard Rotary Switch.



INSULATED FARTH RETURN





20Nm Motor Unit		
Voltage	Starting Current	Running Current
12v DC	5 amps	3 amp
24v DC	3 amps	2 amps

30Nm Motor Unit		
Voltage	Starting Current	Running Current
12v DC	5 amps	3 amp
24v DC	3 amps	2 amps

50Nm Motor Unit		
Voltage	Starting Current	Running Current
12v DC	5 amps	3 amp
24v DC	3 amps	2 amps

80Nm Motor Unit		
Voltage	Starting Current	Running Current
12v DC	9 amps	5 amp
24v DC	5 amps	2 amps

I I 0Nm Motor Unit		
Voltage	Starting Current	Running Current
24v	5 amps	2 amps

Current readings are for guidance only.





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