












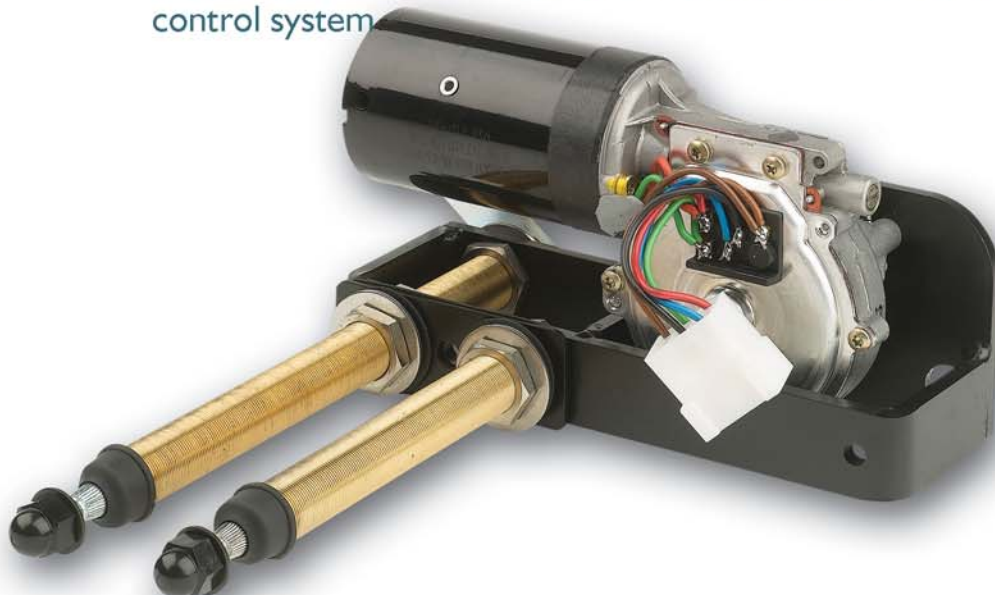


# 50 Nm

## Heavy Duty Window Wiper

Ideal for average to high speed vessels

-  Pantograph and pendulum
-  Low maintenance
-  Silent Running
-  Arms with blades up to 39ins. (1000mm) available for average speed vessels
-  Arms with blades up to 24ins. (610mm) available for high speed vessels
-  Fixed arc or variable arc models
-  12 and 24 volt DC
-  Two speeds
-  Self parking facility
-  Insulated earth return and EMC filter are standard
-  Operated by various controls including a rotary switch, toggle switch, rocker switch or a multi-speed / function control system



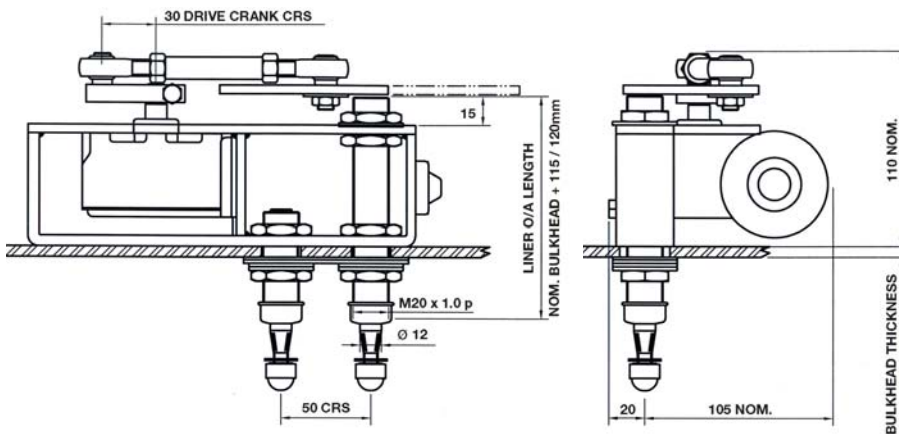
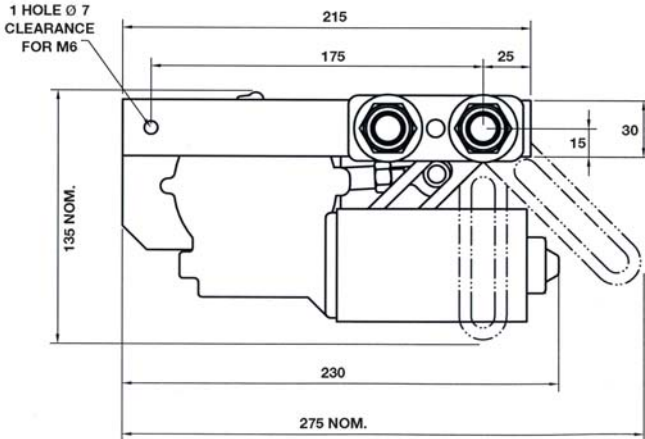


# 50 Nm Heavy Duty Window Wiper

Ideal for average to high speed vessels

## Specifications

<b>Standard Details</b>	2 Speed; Self Parking; Insulated Earth Return; 12v and 24v
<b>Angles of Arc - Fixed</b>	
<b>Pantograph Units</b>	25° to 90° (in 5° increments only)
<b>Pendulum Units</b>	25° to 115° (in 5° increments only)
<b>Angles of Arc - Variable</b>	
<b>Pantograph Units</b>	35°, 40°, 45°, 50°, 55°, 60°, 70°, 80°, 90°
<b>Pendulum Units</b>	35°, 40°, 45°, 50°, 55°, 60°, 70°, 80°, 90°, 100°, 110°, 120°
<b>Spindle Centres</b>	Between Drive Liner & Idler = 50mm <b>Pantograph Units only</b>
<b>Drive Liner</b>	M20 - Brass Liner / 12mm SS Spindle <b>Pantograph &amp; Pendulum Units</b>
<b>Liner Overall Length</b>	Bulkhead Thickness + 120mm Liners over 125mm are available at extra cost
<b>Idler Liner</b>	M20 - Brass Liner / 12mm SS Spindle <b>Pantograph Units only</b>
<b>Bracket</b>	C - Compact Bracket
<b>Unit Weight</b>	Allowing for the maximum arm and blade lengths; 4Kgs (8.8 lbs)



**50Nm Linkage configurations**

When very wide or multiple windows are to be swept we offer a comprehensive range of swept area solutions utilising the 50Nm drive unit operating either two or three arms and blades of one motor. This offers customers the benefit of simpler installations as well as cost saving.

## Wiper Arms and Blades

### ■ Pantograph Arms

<b>P615</b>	Medium Duty
<b>Lengths</b>	12" to 34" (310mm to 860mm) nom
<b>Drive Head</b>	12mm
<b>Idler Head</b>	12mm
<b>Blade Clip</b>	14mm
<b>P620</b>	Medium Duty
<b>Lengths</b>	12" to 34" (310mm to 860mm) nom
<b>Drive Head</b>	12mm
<b>Blade Clip</b>	20mm

### ■ Pendulum Arms

<b>F63</b>	Medium Duty
<b>Lengths</b>	12" to 34" (310mm to 860mm) nom
<b>Drive Head</b>	12mm
<b>Blade Clip</b>	14mm
<b>F73</b>	Medium Duty
<b>Lengths</b>	12" to 34" (310mm to 860mm) nom
<b>Drive Head</b>	12mm
<b>Blade Clip</b>	20mm

### ■ Blades

<b>B140</b>	Curved Blade
<b>Lengths</b>	12" to 28" (310mm to 710mm) nom
For use with arm types:	
<b>Pendulum</b>	F63
<b>Pantograph</b>	P615
<b>B140</b>	Curved Blade
<b>Lengths</b>	32" (810mm), nom
For use with arm types:	
<b>Pendulum</b>	F73
<b>Pantograph</b>	P620



**B. HEPWORTH AND COMPANY LIMITED**

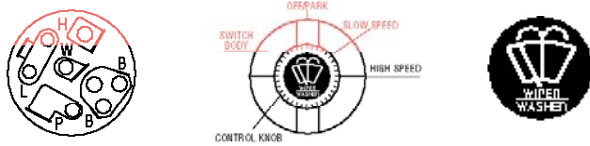
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# 20 / 30 / 50 / 80 / 110 Nm

## Electrical Details

### Non-intermittent Rotary Switch 12v : 24v 10094800

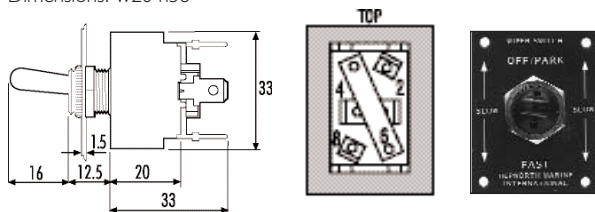


#### Wiring the Motor Unit to a Rotary Switch

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

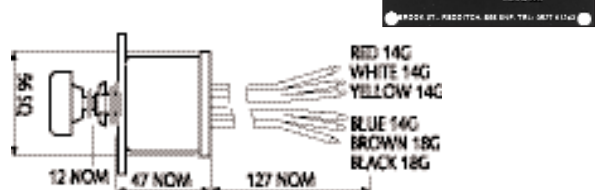
Motor	Switch
31b (self park reversal feed)	position 8
53 (low speed)	position 4
53a (self park)	position 6 and positive DC ship's supply
53b (high speed)	position 2
31 (earth connection)	the negative ship's supply

### Multi Speed Control Switch and Plate

12v - 90041000

24v - 90041100

Dimensions: w83 h66



#### Wiring the Motor Unit to a Multi Speed Control Switch

Motor	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
Washer Pump	to BROWN wire

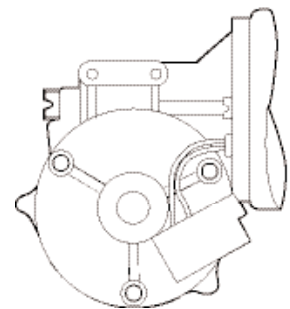
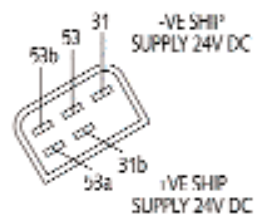
### Multi-Function Wiper Switch

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

24 volt DC.



### INSULATED EARTH 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

#### 110Nm Motor Unit

Voltage	Starting Current	Running Current
24v	5 amps	2 amps

Current readings are for guidance only.



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