Horiso

240VAC Asynchronous Blind Motors

Basic Technical Specification for the operation of 240VAC Asynchronous Blind Motors

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General Requirements for Control Gear driving 240VAC Motors with mechanical limits:

1: Motors must not be parallel wired. Each motor must be connected with a 4-core cable to the controller. No central N connection in proximity of motors are acceptable (like typically used in light circuits).

2: Motor relays must be 2-Channel, single throw, NO contacts, mechanically interlocked. One channel for UP, one channel for DOWN.

3: The switch-over delay must be at least 500ms.

4: The relay channels must be turned off after a certain runtime, to prevent constant 240VAC on the motor limit switches, once in end position.

Additional requirements for Venetian Blinds:

1: The central motor drives lifting and tilting spools which allow for the following operation:
A: Driving **UP** = Retracting the Base Bar = Tilting Blades OPEN
B: Driving **DOWN** = Extending the Base Bar = Tilting Blades CLOSED

2: The total runtime required for the action ‘Fully Tilt Open/Close” is approx. 1,000ms

3: Standard EVB Box Motors allow for short adjustments bursts of 200ms = 15 angle degree tilt.

4: The respective control gear must be able to accommodate this short burst to allow the EVB to tilt with intermediate stops.

5: In addition, the control gear needs to be able to accommodate the above LIFT/TILT functionality:
A: Extending the blind to its bottom position (until the bottom limit switch has been triggered, then retract for 1,000ms = Blind extended and Tilt OPEN

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+61 2 8755 4500
info@horiso.com.au

horiso.com