

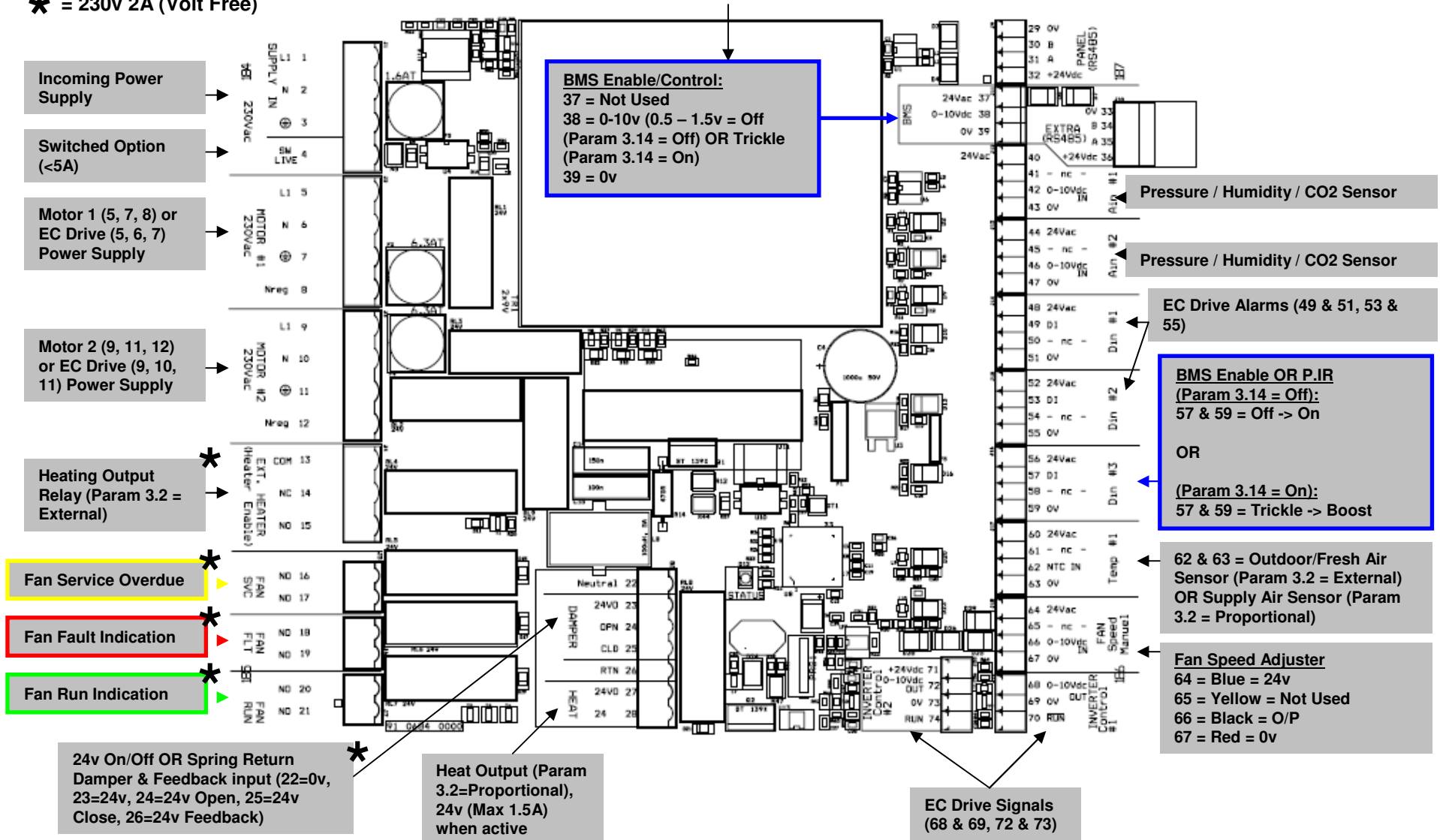
Flakt Woods I-Fan Controller (ICM) – Generation 2

Factory Defaults
 Param 3.14 = On
 Param 3.2 = No Heater

★ = 230v 2A (Volt Free)

2.2.1 BMS Control

The signal received from the BMS has the highest priority over the operation of the fan. However, when the voltage signal is less than 0.5 V, the controller is locally controlled by the various sensors and switches. When the voltage is between 0.5 V and 1.5 V the fan is either stopped or in trickle ventilation depending on the selected trickle mode. Signals from sensors and switches are not considered. When the BMS signal is between 2 V and 10 V the speed varies proportionally between the maximum and minimum speeds and signals from sensors and switches are not considered.



Incoming Power Supply

Switched Option (<5A)

Motor 1 (5, 7, 8) or EC Drive (5, 6, 7) Power Supply

Motor 2 (9, 11, 12) or EC Drive (9, 10, 11) Power Supply

Heating Output Relay (Param 3.2 = External)

Fan Service Overdue

Fan Fault Indication

Fan Run Indication

24v On/Off OR Spring Return Damper & Feedback input (22=0v, 23=24v, 24=24v Open, 25=24v Close, 26=24v Feedback)

Heat Output (Param 3.2=Proportional), 24v (Max 1.5A) when active

EC Drive Signals (68 & 69, 72 & 73)

BMS Enable/Control:
 37 = Not Used
 38 = 0-10v (0.5 - 1.5v = Off (Param 3.14 = Off) OR Trickle (Param 3.14 = On)
 39 = 0v

Pressure / Humidity / CO2 Sensor

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EC Drive Alarms (49 & 51, 53 & 55)

BMS Enable OR P.I.R.
 (Param 3.14 = Off):
 57 & 59 = Off -> On
 OR
 (Param 3.14 = On):
 57 & 59 = Trickle -> Boost

62 & 63 = Outdoor/Fresh Air Sensor (Param 3.2 = External) OR Supply Air Sensor (Param 3.2 = Proportional)

Fan Speed Adjuster
 64 = Blue = 24v
 65 = Yellow = Not Used
 66 = Black = O/P
 67 = Red = 0v