

# Jaguar VXR Series

Mechanical Handling / General Purpose AC Variable Speed Drives

1Ø, 230V/50~60Hz, 0.4~2.2kW (½~3HP)

3Ø, 230V/50~60Hz, 0.4~15kW (½~20HP)\*

3Ø, 400V/50~60Hz, 0.4~15kW (½~20HP)

# IMO



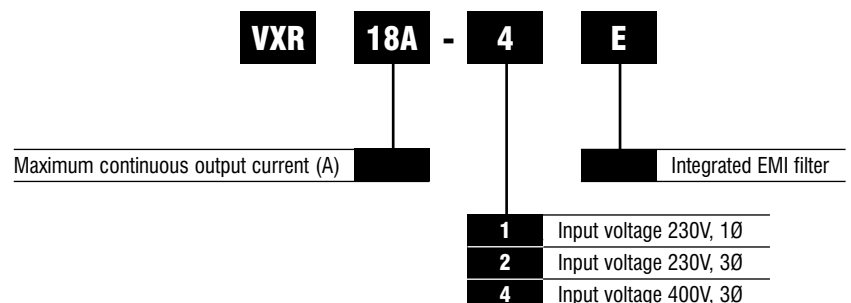
- IP20 side-by-side mounting
- Optional integrated EMI filtered models
- Fast response to dynamic load changes - 64MHz CPU
- RoHS, CE, UL/cUL compliant
- V/F or Dynamic Torque Vector control
- >300% starting torque between 1-3Hz
- Improved open-loop low-speed stability
- 'Hit-and-Stop' control with holding torque
- Mechanical brake control output – torque generated
- PID with 'Dancer' control
- PTC thermistor input
- Input and Output phase-loss protection
- Loss-of-command signal detection
- Thermostatically operated long-life cooling fans (designed to operate for 10 years at 40°C)
- Life time / service due alarm output
- RS485 (RJ-45 IN/OUT) / Profibus / DeviceNet option cards
- Optional multi-function back-lit keypad with parameter COPY mode
- Encoder feedback (close-loop) and shaft-synchronizing options
- Synchronous (Permanent Magnet) motor options\*\*\*
- DC reactor connections

\* Special order

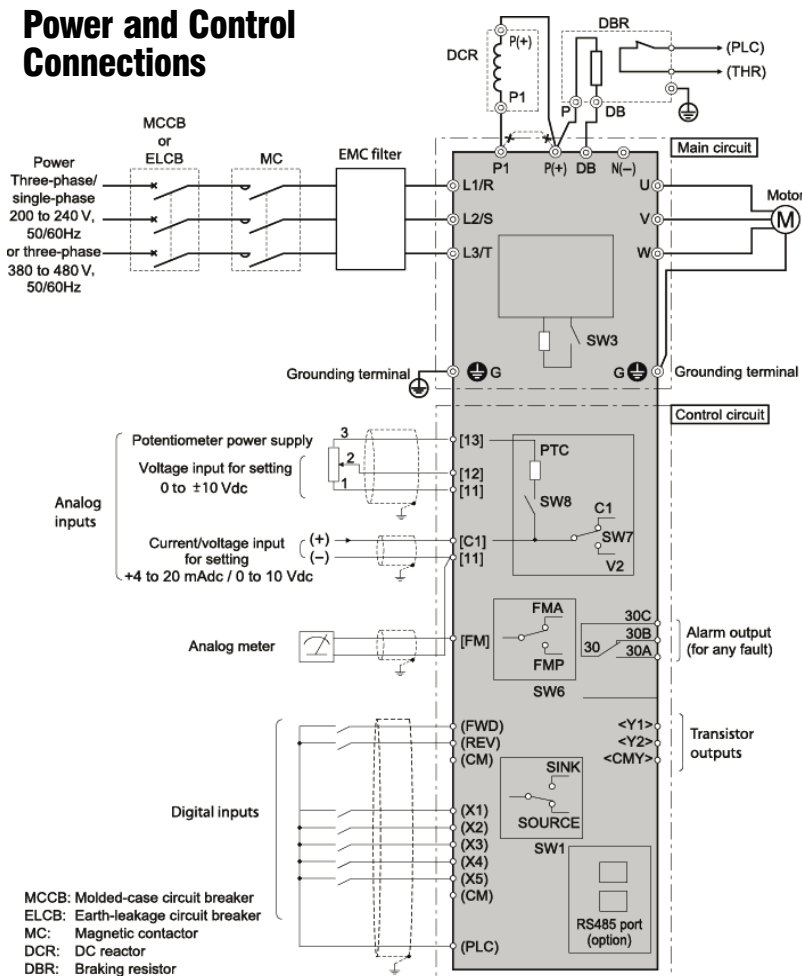
\*\*\* Available soon



## Options and ordering codes



## Power and Control Connections



## Specifications and Dimensions

### All Models:

- Overload (A) = 150% for 60s, 200% for 0.5s
- Maximum operating temperature = 50°C
- Maximum output frequency = 400Hz
- Carrier frequency = 0.75~15kHz

| Frame | H(mm) | H(ins) | W(mm) | W(ins) |
|-------|-------|--------|-------|--------|
| 1     | 120   | 4.72   | 80    | 3.15   |
| 2     | 130   | 5.12   | 110   | 4.33   |
| 3     | 180   | 7.09   | 140   | 5.51   |
| 4     | 220   | 8.66   | 180   | 7.09   |
| 5     | 260   | 10.24  | 220   | 8.66   |

|                          | 3-phase input 380-480 + 10% -15% 50/60Hz ±5% |           |          |          |       |        |       |        |
|--------------------------|----------------------------------------------|-----------|----------|----------|-------|--------|-------|--------|
| Part Number VXR...       | 1A5-4                                        | 1A5-4E    | 2A5-4    | 2A5-4E   | 3A7-4 | 3A7-4E | 5A5-4 | 5A5-4E |
| Motor rating (kW)        | 0.37/0.55                                    | 0.37/0.55 | 0.75/1.1 | 0.75/1.1 | 1.5   | 1.5    | 2.2   | 2.2    |
| Motor rating (H.P)       | 0.5                                          | 0.5       | 1        | 1        | 2     | 2      | 3     | 3      |
| Rated output current (A) | 1.5                                          | 1.5       | 2.5      | 2.5      | 3.7   | 3.7    | 5.5   | 5.5    |
| Frame size               | 2                                            | 2         | 2        | 2        | 2     | 3      | 3     | 3      |
| Depth (mm)               | 126                                          | 169       | 150      | 193      | 150   | 194    | 150   | 194    |
| Depth (inches)           | 4.96                                         | 6.65      | 5.91     | 7.60     | 5.91  | 7.64   | 5.91  | 7.64   |

|                          | 1-phase input 200-240V ± 10% 50/60Hz ± 5% |           |          |          |       |       |         |         |
|--------------------------|-------------------------------------------|-----------|----------|----------|-------|-------|---------|---------|
| Part Number VXR...       | 3A-1                                      | 3A-1E     | 5A-1     | 5A-1E    | 8A-1  | 8A-1E | 11A-1   | 11A-1E  |
| Motor rating (kW)        | 0.37/0.55                                 | 0.37/0.55 | 0.75/1.1 | 0.75/1.1 | 1.5   | 1.5   | 2.2     | 2.2     |
| Motor rating (H.P)       | 0.5                                       | 0.5       | 1        | 1        | 2     | 2     | 3       | 3       |
| Rated output current (A) | 3 (2.5)                                   | 3 (2.5)   | 5 (4.2)  | 5 (4.2)  | 8 (7) | 8(7)  | 11 (10) | 11 (10) |
| Frame size               | 1                                         | 1         | 1        | 2        | 2     | 3     | 3       | 3       |
| Depth (mm)               | 127                                       | 127       | 152      | 150      | 160   | 194   | 151     | 194     |
| Depth (inches)           | 4.99                                      | 4.99      | 5.98     | 5.91     | 6.30  | 7.64  | 5.94    | 7.64    |

|                          | 3-phase input 380-480V +10% -15% 50/60Hz ±5% |       |       |        |       |        |       |        |       |        |
|--------------------------|----------------------------------------------|-------|-------|--------|-------|--------|-------|--------|-------|--------|
| Part Number VXR...       | 9A-4                                         | 9A-4E | 13A-4 | 13A-4E | 18A-4 | 18A-4E | 24A-4 | 24A-4E | 30A-4 | 30A-4E |
| Motor rating (kW)        | 4                                            | 4     | 5.5   | 5.5    | 7.5   | 7.5    | 11    | 11     | 15    | 15     |
| Motor rating (H.P)       | 5                                            | 5     | 7.5   | 7.5    | 10    | 10     | 5     | 5      | 20    | 20     |
| Rated output current (A) | 9                                            | 9     | 13    | 13     | 18    | 18     | 24    | 24     | 30    | 30     |
| Frame size               | 3                                            | 3     | 4     | 4      | 4     | 4      | 5     | 5      | 5     | 5      |
| Depth (mm)               | 151                                          | 194   | 158   | 158**  | 158   | 158**  | 195   | 195**  | 195   | 195**  |
| Depth (inches)           | 5.94                                         | 7.64  | 6.22  | 6.22   | 6.22  | 6.22   | 7.68  | 7.68   | 7.68  | 7.68   |