

AC DRIVES ACS150

Specifications

Input Connection

Input Voltage (U1, V1, W1)

Input Frequency
Line Imbalance

Fundamental Power Factor

Connection

Output Connection

Output Voltage Output Frequency Frequency Resolution

Continuous Current

Short Term Overload Capacity

Field Weakening Point Switching Frequency

Acceleration & Deceleration Time

Efficiency

Short circuit withstand rating

Connection

Ambient Conditions, Operation

Air Temperature

Relative Humidity

Contamination Levels

IEC

Chemical Gasses Solid Particles

Installation Site Altitude

Sinusoidal Vibration

Shock

EMC Directive

208/220/230/240Vac 1-phase or 3-phase +/-10% 380/400/415/440/460/480Vac 3-phase +/-10% 48 to 63 Hz, maximum rate of change 17%/second Max +/-3% of nominal phase to phase input voltage 0.98 (at nominal load)

Terminals U1, V1, W1 (1-phase L, N)

0 to U1, 3-phase symmetrical

0 to 500 Hz 0.01 Hz

Rated I_{2N} for f_{S} =4 kHz

1.5 * I_{2N} (at least 1 min / 10 min)

30 to 500 Hz

4, 8 or 12 kHz (derate I_{2N} to 80% for 8 kHz, derate ambient temp to 30°C and I_{2N} to 65% for 12 kHz), (16 kHz, v1.31b+)

0.1 to 1800 s

98% at nominal power level

100,000 AIC

Terminals U2, V2, W2

-10° (14°F) to 40°C (104°F), no frost allowed, above 40°C the maximum output current is de-rated 1% for every additional

1°C (up to 50°C (122°F) maximum limit)

5 to 95%, no condensation allowed, maximum relative humidity is 60% in the presence of corrosive gasses

60721-3 (-1, -2, -3) 3C2 (operation) 3S2 (operation)

0 to 1000 m (3300 ft) above sea level. At sites from 1000 m to 2000 m (3300 ft to 6600 ft) above sea level, the maximum power is de-rated 1% for every additional 100 m (330 ft).

IEC 60721-3-3 (consult manual)

IEC 60068-2-27, ISTA 1A (consult manual)

IEC/EN 61800-3, 61800-5-1, 60204-1 (consult manual)



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Specifications (continued)

Ambient Conditions, Storage & Transportation (in Protective Shipping Package)

Air Temperature -40° to 70°C (-40° to 158°F)

Relative Humidity Less than 95%, no condensation allowed

Atmospheric Pressure 70 to 106 kPa (10.2 to 15.4 PSI)

Cooling Information

Cooling Method Internal Fan except for Frame R0
Power Loss Approximately 3% of rated power

Analog Inputs

One (1) Programmable Analog Input

Current Reference 0 (4) to 20 mA, R_{in} = 100 ohm Voltage Reference 0 (2) to 10 V, R_{in} > 312 kohm

Resolution 0.1%

Accuracy \pm 2% (1% - adjust parameter 13)

Reference Power Supply (available Q2, 2007)

Voltage +10 VDC, \pm 1% at 25°C (77° F)

Maximum Load 10 mA

Applicable Potentiometer 1 kohm to 10 kohm

Digital Inputs

Five (5) Programmable Digital Inputs

Signal Level 12-24 VDC, (10 V Logic 0)

 $\begin{array}{lll} \text{Input Current} & \text{15 mA at 24VDC} \\ \text{Input Updating Time} & \text{8 ms } \pm 1 \text{ms} \\ \end{array}$

Internal 24 VDC Supply for Digital Inputs

Voltage 24 VDC, \pm 10%

Maximum Current 200 mA

Relay Outputs

One (1) Programmable Relay Output

Type NO + NC

Switching Voltage 12-250VAC/30VDC

Maximum Switching Current 0.5A / 30VDC; 5A / 230VAC

Maximum Continuous Current $I_c = 2 \text{ Amps RMS}$