THREE PHASE, DRIVE ISOLATION TRANSFORMERS

With today's technological advances in solid-state power control devices, the use of AC and DC variable speed drives has proliferated in many industrial markets. General purpose distribution transformers are not adequate for this type of application.

Hammond's Drive Isolation Transformers are designed to meet the rugged demands of both AC and DC variable speed drives and also to provide the required voltage change. The separate primary and secondary windings provide electrical isolation between the incoming line and the SCR load. The windings are designed to withstand overcurrent of 150% of the rated load for 60 seconds or 200% of the rated load for 30 seconds. (A duty cycle of one start for every two hours is permitted.)

Drive Isolation Transformers are sized to match standard motor horsepower and voltage ratings. Standard sizes range from 5 to 600 HP in six standard voltages. Nonstandard sizes and voltages are available upon request.

SELECTION INSTRUCTIONS

Select the Drive Isolation transformer according to the recommendations from the motor drive system

Motor H.P.	Transformer kVA
5	7.5
7.5	11
10	14
15	20
20	27
25	34
30	40
40	51
50	63
60	75

Motor H.P.	Transformer kVA
75	93
100	118
125	145
150	175
200	220
250	275
300	330
400	440
500	550
600	660

ALUMINUM AND COPPER WOUND FEATURES

THREE PHASE STANDARD SPECIFICATIONS

	7.5 to 175 kVA	220 to 660 kVA
UL Listed	File: E112313	File: E112313
CSA Certified	File: LR3902	File: LR3902
Frequency	60 Hz	60 Hz
Insulation System	220°C (150°C rise) 200°C (130°C rise) on some Copper units up to 40kVA.	220°C (150°C rise) (optional 115°C and 80°C rise available)
Enclosure Type	Heavy Duty Ventilated NEMA Type 3R Optional NEMA 4, 4X(stainless steel) and 12	Heavy Duty Ventilated NEMA Type 3R Optional NEMA 4, 4X(stainless steel) and 12
Enclosure Finish	ANSI 61 Grey, UL50	ANSI 61 Grey, UL50
Neutral	Neutral terminal for field connection.	Neutral terminal for field connection.
Standard Primary Taps	Refer to wiring diagrams for details.	Refer to wiring diagrams for details.
Termination	Front accessible separate high and low voltage terminations; suitable for copper and aluminum, are provided for easy cable installation.	Front accessible separate high and low voltage terminations; suitable for copper and aluminum, are provided for easy cable installation
Thermostat	Standard on all units.	Standard on all units.
Conduit Knock-Outs	Standard on all units.	None
Impedance	Typically 3 to 6%.	Typically 3 to 6%.
Mounting	Standard floor mounting on all units. Standard wall mounting & optional ceiling mounting available on units up to 51 kVA.	Floor mounting only.