

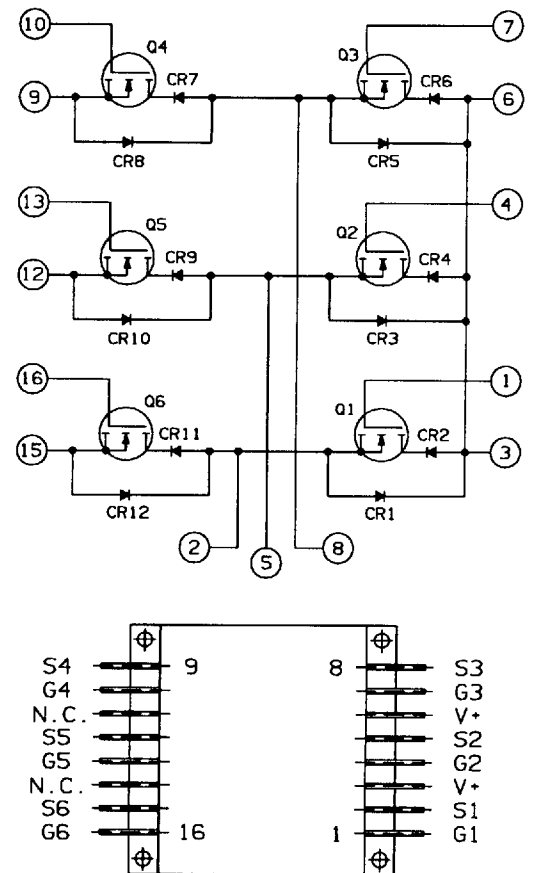
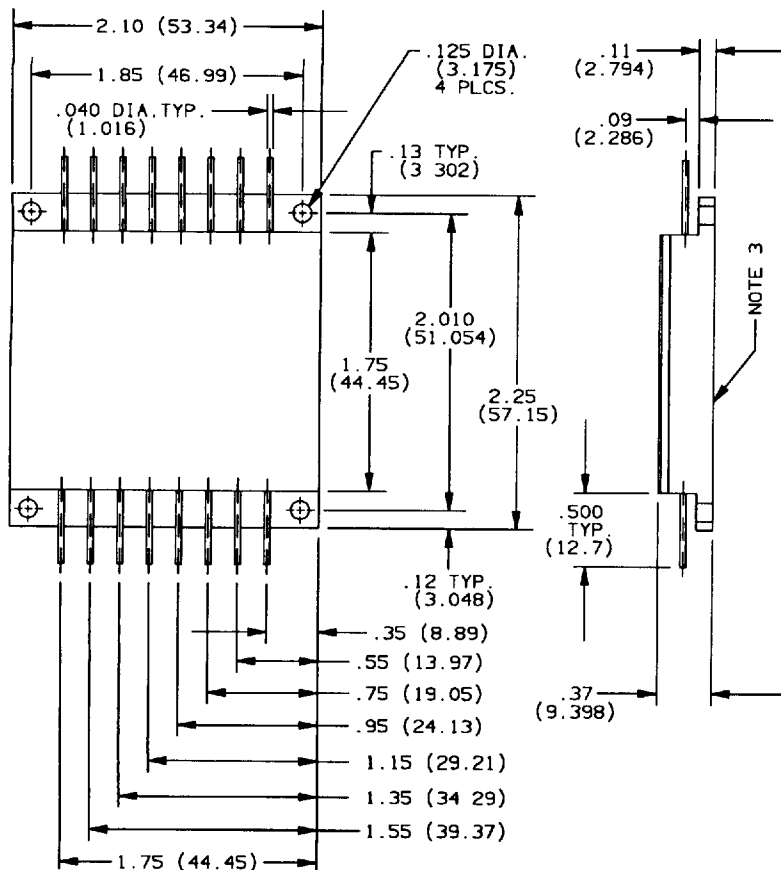
CHHY 001 CHHY 003
CHHY 002 CHHY 004

THREE PHASE BRUSHLESS MOTOR DRIVER

Solitron DEVICES, INC.

Decimal Tolerances: (.xx) = ±.020 (.508 mm)
(.xxx) = ±.010 (.254 mm)

3301 ELECTRONICS WAY • WEST PALM BEACH, FLORIDA 33407
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NOTES:

- 1) CENTER LINE DIMENSION BETWEEN ADJACENT LEADS APPLY ONLY AT LEAD TO CASE INTERFACE.
- 2) CASE MATERIAL = SOLID COPPER; LID MATERIAL = KOVAR PIN MATERIAL = CERAMIC EYELETS W/#52 Cu/ALLOY PINS.
- 3) SURFACE TO BE FLAT WITHIN .002 T.I.R. (.0508 mm).

COMPONENT	TEST	TEST CONDITIONS	TEMP. DEG. C	CHHY001		CHHY002		CHHY003		CHHY004		UNITS
				MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	
(Q1 • CR2) CR1 (Q2 • CR4) CR3 (Q3 • CR6) CR5 (Q4 • CR7) CR8 (Q5 • CR9) CR10 (Q6 • CR11) CR12	BV	VGS = 0 ID = 350µA	+25	100	---	200	---	400	---	500	---	VOLTS
				100	---	200	---	400	---	500	---	
				100	---	200	---	400	---	500	---	
				100	---	200	---	400	---	500	---	
				100	---	200	---	400	---	500	---	
				100	---	200	---	400	---	500	---	
(Q1 • CR2) CR1 (Q2 • CR4) CR3 (Q3 • CR6) CR5 (Q4 • CR7) CR8 (Q5 • CR9) CR10 (Q6 • CR11) CR12	ID	VGS = 0 VDS: CHHY001 = 80V CHHY002 = 160V CHHY003 = 320V CHHY004 = 400V	+125	---	4	---	4	---	4	---	4	mA
				---	4	---	4	---	4	---	4	
				---	4	---	4	---	4	---	4	
				---	4	---	4	---	4	---	4	
				---	4	---	4	---	4	---	4	
				---	4	---	4	---	4	---	4	
Q1 Q2 Q3 Q4 Q5 Q6	IGS	VGS = ±20V VDS = 0	+25	---	100	---	100	---	100	---	100	nA
				---	100	---	100	---	100	---	100	
				---	100	---	100	---	100	---	100	
				---	100	---	100	---	100	---	100	
				---	100	---	100	---	100	---	100	
				---	100	---	100	---	100	---	100	
Q1 • CR2 Q2 • CR4 Q3 • CR6 Q4 • CR7 Q5 • CR9 Q6 • CR11	VFE1 +VCR	VGS = 10V ID: CHHY001 = 20A CHHY002 = 16A CHHY003 = 8A CHHY004 = 7.2A	+25	---	3.1	---	3.5	---	4.5	---	5.0	VOLTS
				---	3.1	---	3.5	---	4.5	---	5.0	
				---	3.1	---	3.5	---	4.5	---	5.0	
				---	3.1	---	3.5	---	4.5	---	5.0	
				---	3.1	---	3.5	---	4.5	---	5.0	
				---	3.1	---	3.5	---	4.5	---	5.0	
CR1 CR3 CR5 CR8 CR10 CR12	VF	IF: CHHY001 = 30A CHHY002 = 30A CHHY003 = 15A CHHY004 = 13A	+25	---	1.5	---	1.5	---	1.5	---	1.5	VOLTS
				---	1.5	---	1.5	---	1.5	---	1.5	
				---	1.5	---	1.5	---	1.5	---	1.5	
				---	1.5	---	1.5	---	1.5	---	1.5	
				---	1.5	---	1.5	---	1.5	---	1.5	
				---	1.5	---	1.5	---	1.5	---	1.5	