

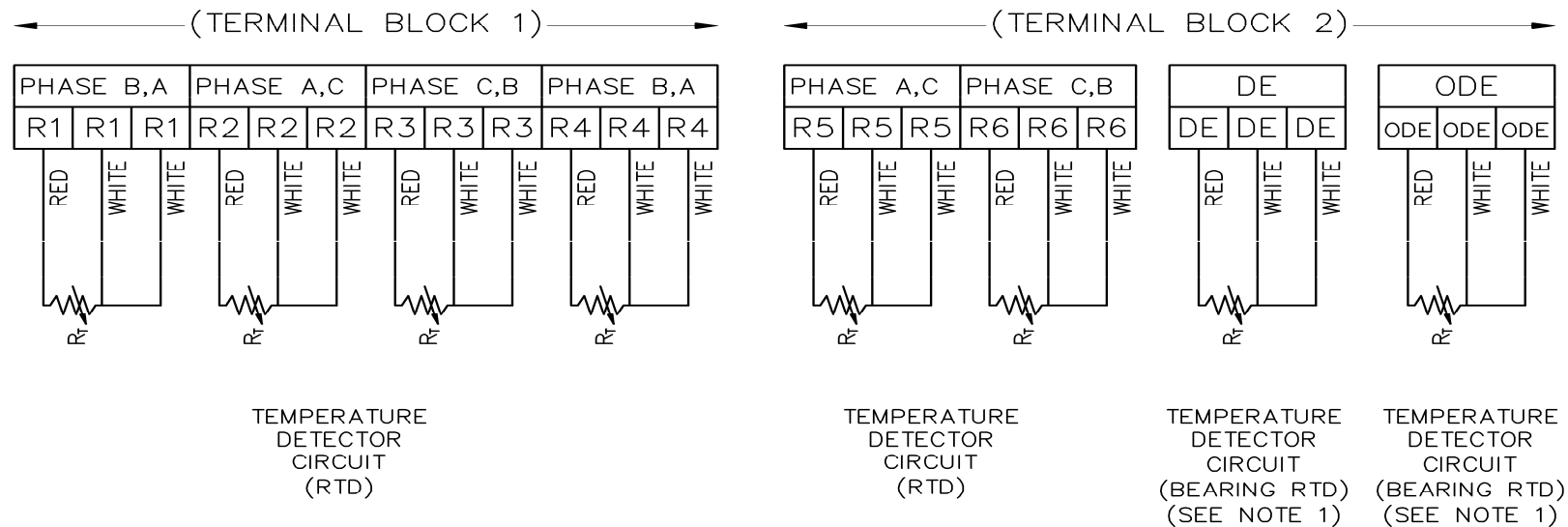


Recommended Stator RTD Settings for Continuous Duty Generators in °C						
Generator Ratings	Insulation (Temp) Class	NEMA Rise Limit by RTD	NEMA Limit Total Temperature	Maximum Allowable	Alarm Temperature Setting	Trip Temperature Setting
1563 kVA & Less	A	70	110	110	120	130
	B	90	130	130	140	150
	F	115	155	155	165	175
	H	140	180	180	190	200
Over 1563 kVA, ≤ 7000V	A	65	105	105	115	125
	B	85	125	125	135	145
	F	110	150	150	160	170
	H	135	175	175	185	195
Over 1563 kVA, > 7000V	A	60	100	100	105	115
	B	80	120	120	125	135
	F	105	145	145	150	160
	H	125	165	n/a	n/a	n/a

Recommended Stator RTD Settings for Standby Duty Generators in °C						
Generator Ratings	Insulation (Temp) Class	NEMA Rise Limit by RTD	NEMA Limit Total Temperature	Maximum Allowable	Alarm Temperature Setting	Trip Temperature Setting
1563 kVA & Less	A	95	135	135	145	155
	B	115	155	155	165	175
	F	140	180	180	190	200
	H	165	205	205	215	225
Over 1563 kVA, ≤ 7000V	A	90	130	130	140	150
	B	110	150	150	160	170
	F	135	175	175	185	195
	H	160	200	200	210	220
Over 1563 kVA, > 7000V	A	85	125	125	130	140
	B	105	145	145	150	160
	F	130	170	170	175	185
	H	150	190	n/a	n/a	n/a

Recommended Bearing RTD Settings for All Generators in °C			
Location of Bearing RTD	Maximum Allowable	Alarm Temperature Setting	Trip Temperature Setting
As Measured on the Bearing	100	110	120
As Measured on the Bearing Housing	90	100	110

Stator RTD limit settings are based on NEMA MG1-203, Part 32, "Synchronous Generators Temperature Limits per Table 32-3" with a +10°C allowance for alarm and a +20°C allowance for trip in low and medium voltage machines. For high voltage machines, limits are +5°C allowance for alarm and +15°C allowance for trip. Marathon Electric's Generator Engineering Department believes these settings are sufficiently low enough for protection of the generator, yet high enough to avoid nuisance trips.



NOTE:

1- APPLIES TO GENERATORS EQUIPPED WITH DE & ODE (TERMINATED) BEARING RTD'S.

				TOLERANCES UNLESS SPECIFIED			DRAWN DRS 08-18-1998				
				DEC.	INCHES		CHK	TM	08-18-1998		
				.X	± -			APPD	LM	08-18-1998	
3	REVISED THE PHASE DESIGNATIONS	CN 38333	TM 08-17-2004	.XX	± -	TITLE CONNECTION DIAGRAM MAGNAMAX GENERATOR				SCALE	3=4
2	ADDED NOTE 1	CN 32553	DRS 02-02-2004	ML .XXX	± -					REF	505171-1166
1	NEW DRAWING	CN 26717	DRS 08-18-1998	.XXXX	± -	MAT'L.	FMF				
NO.	REVISION		BY & DATE	CHK	ANG	± -	FINISH	PREV			
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