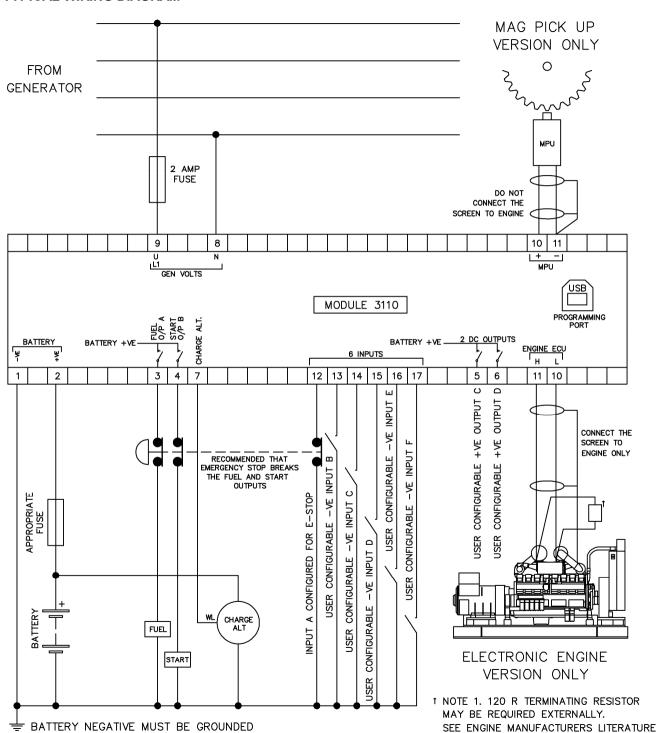
	ition Parameters – Module (Page 1)	1000 %	
101	Contrast	000 %	
102	RESERVED RESERVED		_
103		On (1) Off (0)	
104	Lamp Test at Startup	On (1), Off (0)	-
105	Power Save Mode Enable	On (1), Off (0)	
	Protected Start Enabled	On (1), Off (0)	
107	Power Up in Auto Mode	On (1), Off (0)	
108	Oil Pressure Display	PSI (1), Bar (0)	CAN
109	Display Volts in Ph-Ph	On (1), Off (0)	
110	Temperature Display	°F (1), °C (0)	CAN
onfigura	ition Parameters – Application (Page 2)		
201	Default Configuration	On (1), Off (0)	CAN
202	Alternative Engine Speed	On (1), Off (0)	CAN
203	CAN ECU Data Fail Arming	0 (Arming)	CAN
204	CAN ECU Data Fail Action	0 (Action)	CAN
205	CAN ECU Data Fail Delay	0 s	CAN
onfigura	tion Parameters – Digital Inputs (Page 3)		
301	Low Oil Pressure Enable	On (1), Off (0)	CAN
302	Low Oil Pressure Trip	0.00 Bar / PSI	CAN
303	High Engine Temperature Trip	0 °C / °F	CAN
304	Digital Input A Source	0 (Input Source)	OAN
305			
	Digital Input A Polarity	0 (Polarity)	_
306	Digital Input A Action (If Source = User Config)	0 (Action)	
307	Digital Input A Arming (If Source = User Config)	0 (Arming)	_
308	RESERVED		
309	Digital Input B Source	0 (Input Source)	
310	Digital Input B Polarity	0 (Polarity)	
311	Digital Input B Action (If Source = User Config)	0 (Action)	
312	Digital Input B Arming (If Source = User Config)	0 (Arming)	
313	RESERVED		
314	Digital Input C Source	0 (Input Source)	
315	Digital Input C Polarity	0 (Polarity)	
316	Digital Input C Action (If Source = User Config)	0 (Action)	
317	Digital Input C Arming (If Source = User Config)	0 (Arming)	
318	RESERVED		
319	Digital Input D Source	0 (Input Source)	
320	Digital Input D Polarity	0 (Polarity)	
321	Digital Input D Action (If Source = User Config)	0 (Action)	
322	Digital Input D Arming (If Source = User Config)	0 (Arming)	
323	RESERVED	, , , , , , , , , , , , , , , , , , ,	
324	Digital Input E Source	0 (Input Source)	
325	Digital Input E Polarity	0 (Polarity)	
326	Digital Input E Action (If Source = User Config)	0 (Action)	
327	Digital Input E Arming (If Source = User Config)	0 (Arming)	
328	RESERVED	, 3,	
329	Digital Input F Source	0 (Input Source)	
330	Digital Input F Polarity	0 (Polarity)	
331	Digital Input F Action (If Source = User Config)	0 (Action)	
332	Digital Input F Arming (If Source = User Config)	0 (Action)	
	ition Parameters – Outputs (Page 4)	5 (/g/	
401		O (Output Source)	CAN
	Digital Output A Bolority	0 (Output Source)	
402	Digital Output A Polarity	0 (Output Polarity)	CAN
403	Digital Output B Source	0 (Output Source)	CAN
	Digital Output B Polarity	0 (Output Polarity)	CAN
405	Digital Output C Source	0 (Output Source)	
406	Digital Output C Polarity	0 (Output Polarity)	
407	Digital Output D Source	0 (Output Source)	_
408	Digital Output D Polarity	0 (Output Polarity)	
	tion Parameters – Timers (Page 5)		
501	Remote Start Delay		
502	Preheat Timer		
503	RESERVED		
	RESERVED		
504	Consider Limiting		
504 505	Smoke Limiting		
504	Smoke Limiting Smoke Limiting Off		
504 505			
504 505 506	Smoke Limiting Off RESERVED Warm Up Time		
504 505 506 507	Smoke Limiting Off RESERVED Warm Up Time		
504 505 506 507 508	Smoke Limiting Off RESERVED Warm Up Time Return Delay		
504 505 506 507 508 509 510	Smoke Limiting Off RESERVED Warm Up Time Return Delay Cooling Time		
504 505 506 507 508 509	Smoke Limiting Off RESERVED Warm Up Time Return Delay Cooling Time ETS Solenoid Hold		
504 505 506 507 508 509 510 511 512	Smoke Limiting Off RESERVED Warm Up Time Return Delay Cooling Time ETS Solenoid Hold RESERVED		
504 505 506 507 508 509 510 511 512 513	Smoke Limiting Off RESERVED Warm Up Time Return Delay Cooling Time ETS Solenoid Hold RESERVED		
504 505 506 507 508 509 510 511 512	Smoke Limiting Off RESERVED Warm Up Time Return Delay Cooling Time ETS Solenoid Hold RESERVED		

601	Alternator Fitted		5)		On (1)	Off (II)
602	Alternator Poles				On (1), Off (0)	
603	RESERVED					
604	RESERVED					
605	Under Voltage Shutdo	wn Enabled			On (1),	Off (0)
606	Under Voltage Trip Sh	utdown			0 V	
607	Loading Voltage				0 V	
608	Over Voltage Shutdov	n Trip			0 V	077 (0)
609 610	Under Frequency Shu	tdown Enable			On (1),	Off (0)
611	Under Frequency Shu Loading Frequency	taown i rip			0.0 Hz 0.0 Hz	
612	Nominal Frequency				0.0 Hz	
613	Over Frequency Shut	down Enable				Off (0)
61.4	Over Frequency Shut	down Trip			0.0 Hz	(-)
615	AC System	· ·			0-4	
nfigura	tion Parameters – Eng	ine (Page 7)				
701	Magnetic Pickup Fitte	d		On (1), Off (0)		MPU/F
702	Flywheel Teeth			000		MPU/F
703	Start Attempts			0		
704	RESERVED					
705 706	RESERVED			0.00		MPU/F
706 707	Gas Choke Timer (Gas			0:00		MPU/F MPU/F
707	Gas On Delay (Gas E Gas Ignition Off Delay	ngine Uniy)	n lu)	0:00		MPU/F
708	Crank Disconnect on		zing)	On (1), Off (0)	1	+
710	Check Oil Pressure P	rior to Starting		On (1), Off (0)		
711	Crank Disconnect on	Oil Threshold		0.00 Bar		CAN
712	Crank Disconnect on	Frequency		0.0 Hz		
713	Crank Disconnect on	Engine Speed		000 rpm		
71 4	Under Speed Enable			On (1), Off (0)		
715	Under Speed Trip			0000 rpm		
716	Over Speed Trip			0000 rpm		
717	RESERVED					
71.8 71.9	RESERVED RESERVED					-
720	RESERVED					
721	RESERVED			-		
722	RESERVED					
723	RESERVED					
724	RESERVED					
725	Charge Alt Failure En			On (1), Off (0)		
726	Charge Alt Failure Tri)		0.0 V		
nfigura	tion Parameters – Alte	rnate Configu	ration (Page 8)			
801	Enable Configuration				On (1),	Off (0)
802	Alternative Engine Sp	eed			On (1),	Off (0)
803 804	Ender Voltage Shutdo	wn Enable			On (1),	Off (0)
805	Under Voltage Trip	val			0 V	Off (0)
806	Loading Voltage	Under Voltage Trip Level			0 V	
807	Loading Voltage Over Voltage Trip Level			0 V		
808	Under Frequency Enabled				Off (0)	
809	Under Frequency Trip	level			0.0 Hz	
810	Loading Frequency				0.0 Hz	
811	Nominal Frequency				0.0 Hz	
812	Over Frequency Enab	led				Off (0)
813	Over Frequency Trip I	evel			0.0 Hz	
81 4	Alternative Under Spe				On (1),	Off (0)
81 5 81 6	Alternative Under Spe Alternative Over Spee				7 0000 r	
						JIII
	out Polarity	Output Po		Alarm Act		
Index 0	Polarity Close to Activate	Index	Polarity Energise	Index 0	Action Electrical	Trin
1	Open to Activate	1	De-Energise	- U	Shutdown	ιπμ
'	Open to Activate	ш '	In c. Fileidise	2	Warning	
N Data	Fail Action	CAN Data	Fail Arming		ut Alarm A	mina
Index	Type	Index	Arming	Index	Arming	milig
0	None	0	From Safety On	0	Always	
1	Shutdown	1	From Starting	1	From Safe	ty On
2	Latched Warning	1		2	From Star	tina
2				3	Never	

0 1 2 3 4 1 1 2 3 4 5 6 7 7 8 9 10	Type Single Phase 2 Wire Phase 3 Wire (L1-L2 or L1-L3) 3 Phase 4 Wire 3 Phase 4 Wire 3 Phase 4 Wire Not Used RESERVED RESERVED RESERVED RESERVED	Instrumentation	
1 2 3 4 Output Sour 1 2 3 4 4 5 5 6 7 7 8 9 10 11 12	2 Phase 3 Wire (L1-L2 or L1-L3) 3 Phase 4 Wire 3 Phase 3 Wire 3 Phase 4 Wire (Delta) Cos Not Used RESERVED RESERVED RESERVED RESERVED	L-N x 2 L-N x √3 L-N	
2 3 4 Output Sou 1 2 3 4 5 6 7 8 9 10 11	3 Phase 4 Wire 3 Phase 3 Wire 3 Phase 4 Wire (Delta) ces Not Used RESERVED RESERVED RESERVED RESERVED	L-N x √3 L-N	
3 4 Output Sour 1 2 3 4 5 6 7 8 9 10	3 Phase 3 Wire 3 Phase 4 Wire (Delta) Ges Not Used RESERVED RESERVED RESERVED RESERVED	L-N	
4 Output Sour 1 2 3 4 5 6 7 7 8 9 10 11 12	3 Phase 4 Wire (Delta) Cos Not Used RESERVED RESERVED RESERVED RESERVED		
Output Sour 1 2 3 4 5 6 6 7 8 9 10 11 12	ces Not Used RESERVED RESERVED RESERVED	L-N X Z	
1 2 3 4 5 6 7 8 9 10 11	Not Used RESERVED RESERVED RESERVED		
2 3 4 5 6 7 8 9 10 11	RESERVED RESERVED RESERVED		
3 4 5 6 7 8 9 10 11	RESERVED RESERVED		
4 5 6 7 8 9 10 11	RESERVED		
5 6 7 8 9 10 11			
6 7 8 9 10 11 12			
7 8 9 10 11	RESERVED		
8 9 10 11 12	CAN ECU Data Fail		CAN
9 10 11 12	CAN ECU Error		CAN
10 11 12	CAN ECU Fail		CAN
11 12	CAN ECU Power		CAN
12	CAN ECU Stop		CAN
	RESERVED		
13	Close Gen Output		
14	Close Gen Output Pulse		
	Common Alarm		
	Common Shutdown		
	Common Warning		
18	RESERVED		
	RESERVED		
	RESERVED		
	RESERVED RESERVED		
	RESERVED		
	RESERVED		
	RESERVED		
	Energise to Stop		
	RESERVED		
	RESERVED		
29	Fuel Relay		
	Gas Choke On		MPU/Hz
	Gas Ignition		MPU/Hz
	RESERVED		
	RESERVED		
	RESERVED RESERVED		
	RESERVED		
	RESERVED		
	RESERVED		
	Open Gen Output		
	Open Gen Output Pulse		
	Plant Battery Over Voltage Warning		
43	Plant Battery Under Voltage Warning		
44	Preheat During Preheat Timer		
45	Preheat Until End of Crank		
46	Preheat Until End of Safety Timer		
	Preheat Until End of Warming Timer		
	Smoke Limiting		
	Start Relay		
nput Sourc			
0	User Configured		
	RESERVED RESERVED		
	Alternative Configuration		
	Coolant Temperature Switch		
	Emergency Stop		
6	External Panel Lock		
	RESERVED		
	RESERVED		
	low Fuel Level Switch		
10	Oil Pressure Switch		
	Remote Start Off Load		
	Remote Start On Load		•
13	Smoke Limiting	<u> </u>	
MPU/Hz	3110 - xxx - 01 (MPU/Hz) option only		

REQUIREMENTS FOR UL CERTIFICATION

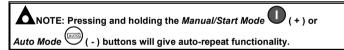
Specification	Description
Screw Terminal Tightening Torque	• 4.5 lb-in (0.5 Nm)
Conductors	Terminals suitable for connection of conductor size 13 AWG to 20 AWG (0.5 mm² to 2.5 mm²).
	Conductor protection must be provided in accordance with NFPA 70, Article 240
	Low voltage circuits (35 V or less) must be supplied from the engine starting battery or an isolated secondary circuit.
	• The communication, sensor, and/or battery derived circuit conductors shall be separated and secured to maintain at least 1/4" (6 mm) separation from the generator and mains connected circuit conductors unless all conductors are rated 600 V or greater.
Current Inputs	Must be connected through UL Listed or Recognized isolating current transformers with the secondary rating of 5 A max.
Communication Circuits	Must be connected to communication circuits of UL Listed equipment
DC Output Pilot Duty	• 0.5 A
Mounting	Suitable for use in type 1 Enclosure Type rating with surrounding air temperature - 22 % to +158 % (-30 % to +70 %) Suitable for pollution degree 3 environments when votage sensing inputs do not exceed 300 V. When used to monitor voltages over 300 V device to be install in an unventilated or filtered ventilation enclosure to maintain a pollution degree 2 environment.
Operating Temperature	• -22 °F to +158 °F (-30 °C to +70 °C)
Storage Temperature	• -40 °F to +176 °F (-40 °C to +80 °C)





EDITING A PARAMETER

- Press the Stop/Reset Mode and Navigation buttons together to enter the editor mode.
- Press the Stop/Reset Mode button to select the required page.
- Press the Manual/Start Mode (+) button to cycle to the next parameter, or the Auto Mode (-) buttons to cycle to the previous parameter, within the current page.
- When viewing the parameter to be edited, press the *Navigation* button and the value begins to flash.
- Press the Manual/Start Mode (+) or Auto Mode (-) buttons to adjust the value to the required setting.
- Press the Navigation button the save the current value, the value ceases flashing.
- Press and hold the *Navigation* button to exit the editor, the configuration icon is removed from the display.



NOTE: More comprehensive module configuration is possible via PC configuration software. For further details of module configuration, refer to DSE Publication: 057-087 DSE3110 Configuration Suite PC Software Manual.

DIMENSIONS

99 mm x 79 mm x 43 mm (3.9" x 3.4" x 1.6")

PANEL CUTOUT

80 mm x 68 mm (3.2" x 2.7")

TERMINALS

Tightening Torque: 0.5 Nm (4.5 lb-in)
Conductor Size: 0.5 mm² to 2.5 mm²
(AWG 20 to AWG 13)

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