S100 suggested basic settings for Heavy Duty applications - Using standard LED keypad

Output frequency at In.53

Terminal 'l2' max. current

Output frequency at In.55

In.54

ln.55

In.56

Hz

mΑ

%

0

20.00

100.00

As required

20.00

As required

	Parameter	Description	Unit	Default set	*Suggested set	Notes					
Operation Group	Acc	Accelerating time	seconds	*20.0	1 to 5	Increase if overcurrent 'OCt' trip occurs on accelerating.					
	Dec	Decelerating time	seconds	**30.0	1 to 10+	Increase if overvolt 'Oui' trip occurs on stopping or decelerating. If PID control, set = 0.1					
	Drv	Command source	-	1	1	Connect 'RUN FORWARD' contact between terminals 'P1' and 'CM' or '24'. Close to RUN, open to STOP.					
	Frq	Frequency Ref source	-	0	2 or 5	Set 2 if using 0-10V input on terminal 'V1'. Set 5 if using mA signal on terminal 'I2'					
	No more essential parameters in this group										
	dr.09	Control Mode	-	0	0 or 4	0 = V/F control; 4 = IM Sensorless Vector control (may be needed if increased starting torque is required)					
	dr.14	Motor power (Capacity)	KW	*	1	Factory set 1:1 to inverter size. Change if lower power motor is connected.					
0.9	dr.15	Torque Boost	-	0	1	Automatically sets amount of boost applied at starting and stopping by adaption of the V/F characteristics.					
ive	dr.18	Base Frequency	Hz	60.00	50.00	Set to frequency shown on motor rating plate (normally 50Hz in UK/Europe)					
J D D	dr.20	Max. Output Frequency	Hz	60.00	50.00	Sets maximum allowable frequency (motor speed) - reduce to 50.00 for UK/European motors.					
	dr.93	Parameter Initialize	-	-	N/A	Set to '1' to set ALL groups back to factory set values					
		No more essential parameters in this group									
	hA 40	Input Dower Frequency		0	4	$0^{\circ} = 60$ Hz $4 = 50$ Hz Set to $\frac{14}{50}$ (50 Hz) if using in $\frac{117}{50}$ (50 Hz)					
	DA.10	Rela number	п	0	A creatived	$0 - 50\pi 2$, $1 - 50\pi 2$, $30\pi 2$, 30					
	DA.11	Pole number		4	As required	Check motor rating plate thm data, let $1000 (-1.00-1076) - 41,1000 (-1.00-1076) - 6,3000 (-1.00-1076) - 2, etc.$					
sic	DA.12	Rated slip	RPIN	-	As required	Enter a value which is the synchronous speed - rotor speed. Ex: 1500 - 1420 = 50, so enter 50					
3a: îro	DA.13		A	-	As required	Set to motor rating plate current. (Be careful to use the correct value it star/delia or S0/00HZ values are given)					
40	DA.15	Notor rated voltage	V	-	As required	Set to motor rating plate value or leave at 0. Note: 0 means inverter output voltage = inverter input voltage					
	DA.19	AC input voltage	V	380	As required	Set to 400 or whatever the input line to line voltage is.					
	DA.20	Auto Tuning	-	0	0 OF 2	0 – standard factory installed motor parameters apply, 2 – auto-tuning routine, installs actual connected motor values.					
	4104	Francisco de lineita e ala at		0	4						
σ	Ad.24		-	0	1	Set to 1 to allow changes to upper and lower frequency (speed) limits					
p Ce	Ad.25		HZ	0.50	0.50 (or nigner)	This parameter is not visible until Ad.24 is changed to '1'					
an ou	Ad.26	High Limit	HZ	60.00	50.00 (or lower)	This parameter is not visible until Ad.24 is changed to '1'					
ຊີ່ບັ	Ad.64	Cooling Fan operation	-	0	2	0 = Fan operates when inverter output is ON; 2 = Fan operates on internal thermostat (only runs when needed)					
Ą	No more essential parameters in this group										
	Cn.04	Carrier Frequency	kHz	3	As required	Inrease if low audible motor noise is required. Keep value low if enclosure is small or motor cable is long					
_				, v							
Contro Group	No more essential parameters in this group										
	1- 00	T	N/	0.00							
	In.08	Terminal 'V1' min. volts	V	0.00	U A o no sector at	Sets terminal 'V1' minimum voltage for external potentiometer operation.					
	IN.09	Output frequency at In.08	%	0.00	As required	Fixes the motor / output irrequency when terminal 'V1' is at voltage set in parameter in.08					
4 9	In.10	Terminal 'V1' max. volts	V	10	10	Sets terminal 'V1' maximum voltage for external potentiometer operation.					
no	In.11	Output frequency at In.10	%	100.00	As required	Exes the motor / output frequency when terminal 'V1' is at voltage set in parameter In.10					
ЕĞ	In.53	Terminal '12' min. current	mA	4.00	0.00 or 4.00	Sets terminal '12' minimum current when an external milli Amp loop is used to give the speed reference					

Fixes the motor / output frequency when terminal 'I2' is at mA level set in parameter In.53

Fixes the motor / output frequency when terminal 'I' is at mA level set in parameter In.55

Sets terminal 'I2' maximum current when an external milli Amp loop is used to give the speed reference

S100 suggested basic settings for Heavy Duty applications - Using standard LED keypad

Protection Group	Pr.04	Load Duty	-	1	1	1' = Heavy duty			
	Pr.05	Phase-loss protection	-	Binary	As required	Set to '01' for output (motor) phase loss protection, '10' for input phase loss protection, and '11' for both			
	Pr.21	Overload Trip level	%	180	180	Sets fault detection level for overload. The set level will be maintained for 60s or for Pr.22 setting then drive will trip.			
	No more essential parameters in this group								

***3.0kHz up to 22KW

Denotes MUST check / set parameters for best operation

All others are relative to the design requirements of the equipment and/or application or environment.

*Suggested Setting - values shown are application typical only. Other setting values may be more appropriate.

Dalroad Norslo Ltd

01582 505252

Mar-17