Basic set-up guide HEAVY DUTY APPLICATION suggeted LS inverter settings iS7

	Drive group	Description	Unit	Default set	Suggested set	Notes			
	03	Accelerating time	seconds	*20.0	2 to 5	Increase if overcurrent 'OCt' trip occurs on accelerating. If PID control, set = 0.1			
٩	04	Decelerating time	seconds	**30.0	2 to 10+	Increase if overvolt 'Oui' trip occurs on stopping or decelerating. If PID control, set = 0.1			
no	06	Command source	-	1	1	Connect 'RUN FORWARD' contact between terminals 'P1' and 'CM' . Close to RUN.			
õ	07	Frequency Ref source	-	0	2 or 3	Set 2 if using 0-10V input on terminal 'V1'. Set 3 if using mA signal on terminal 'I1'			
N ₂	14	Motor power	KW	*	1	Factory set 1:1 to inverter size. Change if lower or higher power motor is connected.			
	18	Base Frequency	Hz	60.00	50.00	Set to frequency shown on motor rating plate (normally 50Hz in UK/Europe)			
	20	Max. Output Frequency	Hz	60.00	50.00	Sets maximum allowable frequency (motor speed) - reduce to 50.00 for UK/European motors.			
	10	Input Power Frequency	Hz	60.00	50.00	Set to 50Hz if using in UK/Europe etc			
<u>a</u>	11	Pole number	-	4	As required	Check motor rating plate rpm data. ie, 1500 (-1 to -10%) = 4, 1000 (-1 to -10%) = 6, 3000 (-1 to -10%) = 2, etc			
2	12	Rated slip	RPM	-	As required	Enter a value which is the synchronous speed - rotor speed. Ex: 1500 - 1420 = 80, so enter '80'			
9	13	Motor rated current	А	-	As required	Set to motor rating plate current. (Be careful to use the correct value if star/delta or 50/60Hz values are given)			
AS	15	Motor rated voltage	V	-	As required	Set to motor rating plate value			
ß	19	AC Input voltage	V	380	400	Set to 400V or whatever the input line to line voltage is.			
	20	Auto Tuning	-	0					

9		24	Frequency limits select	-	0	1	Set to 1 to allow changes to upper and lower frequency (speed) limits
ō		25	Low limit	Hz	0.50	0.50 (or higher)	
9		26	High Limit	Hz	60.00	50.00 (or lower)	
2							
A							
2	-	04	Carrier Frequency	kHz	***5.0	As required	Inrease if low audible motor noise is required. Keep value low if enclosure is small or motor cable is long
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a no more essential parameters in this group						ai parameters in this group	

	08	Terminal 'V1' min. volts	V	0.00	0	Sets terminal 'V1' minimum voltage for external potentiometer operation.
	09	Output frequency at I7	Hz	0.00	As required	Fixes the motor / output frequency when terminal 'V1' is at voltage set in parameter I8
dn	19	Terminal 'V1' max. volts	V	10	10	Sets terminal 'V1' maximum voltage for external potentiometer operation.
loi	l10	Output frequency at I9	Hz	60.00	50.00 (or lower)	Fixes the motor / output frequency when terminal 'V1' is at voltage set in parameter I9
	l12	Terminal 'I' min. current (mA)	mA	4.00	0.00 or 4.00	Sets terminal 'I' minimum current when an external milli Amp loop is used to give the speed reference
R	l13	Output frequency at I12	Hz	0	As required	Fixes the motor / output frequency when terminal 'I' is at mA level set in parameter I12
	l14	Terminal 'I' max. current (mA)	mA	20.00	20.00	Sets terminal 'I' maximum current when an external milli Amp loop is used to give the speed reference
	115	Output frequency at I14	Hz	60.00	50.00 (or lower)	Fixes the motor / output frequency when terminal 'I' is at mA level set in parameter I14

	04	Load Duty	-	1	0	Leave set to '1' to enable 'Heavy Duty' or constant torque application settings (conveyor, mixer, etc)	
d no	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	
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÷.	No more accortial parameters in this group						
PR		No more essential parameters in this group					

***3.0kHz above 90KW

Denotes MUST check / set parameters for best operation

All others are relative to the design requirements of the equipment and/or application or environment. In case of I/O Group it is normally only necessary to set I7 to I10 or I12 to I15 (not both)

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