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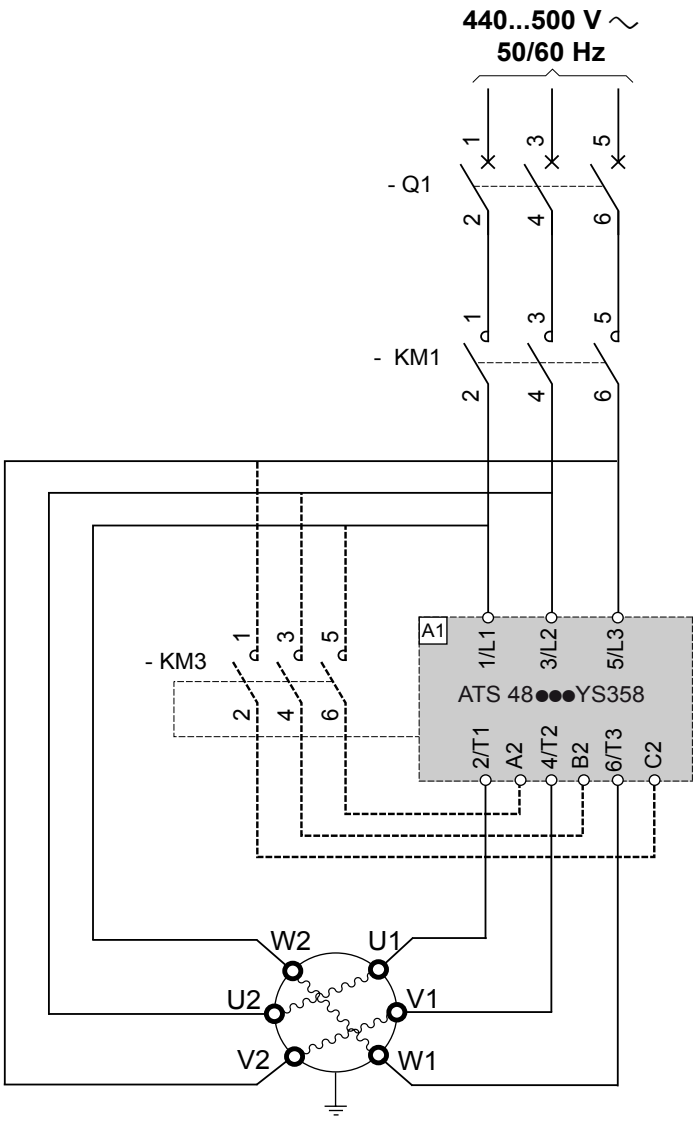
Altistart

ATS 48●●●YS358



Schneider Electric

W9 1754008 01 14 A04
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Standard Application

M			ATS48
440V	460V	500V	
kW	**HP**	**kW**	
15	20	18,5	ATS 48D17YS358
22	30	22	ATS 48D22YS358
30	40	37	ATS 48D32YS358
37	50	45	ATS 48D38YS358
45	60	55	ATS 48D47YS358
55	75	75	ATS 48D62YS358
75	100	90	ATS 48D75YS358
90	125	110	ATS 48D88YS358
110	150	132	ATS 48C11YS358
-	200	160	ATS 48C14YS358
200	250	200	ATS 48C17YS358
220	300	250	ATS 48C21YS358
250	350	315	ATS 48C25YS358
355	450	400	ATS 48C32YS358
500	600	500	ATS 48C41YS358
560	-	630	ATS 48C48YS358
710	-	710	ATS 48C59YS358
710	-	800	ATS 48C66YS358
900	-	900	ATS 48C79YS358
-	-	-	ATS 48M10YS358
-	-	-	ATS 48M12YS358

Severe Application

M			ATS48
440V	460V	500V	
kW	**HP**	**kW**	
11	15	15	ATS 48D17YS358
15	20	18,5	ATS 48D22YS358
22	30	30	ATS 48D32YS358
30	40	37	ATS 48D38YS358
37	50	45	ATS 48D47YS358
45	60	55	ATS 48D62YS358
55	75	75	ATS 48D75YS358
75	100	-	ATS 48D88YS358
90	125	110	ATS 48C11YS358
110	150	132	ATS 48C14YS358
-	200	160	ATS 48C17YS358
160	250	200	ATS 48C21YS358
200	300	220	ATS 48C25YS358
250	350	315	ATS 48C32YS358
355	450	400	ATS 48C41YS358
400	500	500	ATS 48C48YS358
500	600	560	ATS 48C59YS358
560	-	630	ATS 48C66YS358
710	-	800	ATS 48C79YS358
900	-	900	ATS 48M10YS358
-	-	-	ATS 48M12YS358

Settings menu (Set)

Code	Description	Setting range	Factory setting
StY	**Selection of the type of stop**	-d-F-	-F-
	- d - : Soft stopping by control of torque. The starter applies a motor torque in order to decelerate progressively on the ramp, avoiding a rapid stop. This type of stop reduces the risk of water hammer on a pump. **- F -** : Freewheel stop: No torque is applied to the motor by the starter.		

Protection menu (PrO)

The protection parameters can only be modified when the motor is stopped.

Code	Description	Setting range	Factory setting
tLS	**Excessive starting time**	10 to 999 s or OFF	-OFF-
	If the starting time exceeds the value of tLS, the starter is locked and displays the fault StF. The conditions for the end of starting are: • Line voltage applied to the motor (full voltage) in CLP=OFF and CLP=ILt • Line voltage applied to the motor (full voltage) and motor current less than 1.4 In. • OFF: no protection Conditions to full voltage depend to the load application and current limitation.		

Advanced settings menu (drC)

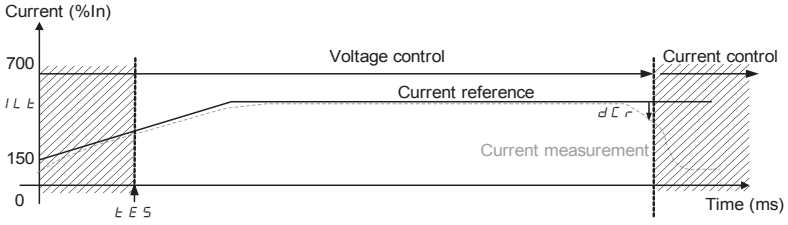
The Advanced setting parameters can only be modified when the motor is stopped.

Code	Description	Setting range	Factory setting
dLt	**Starter with delta winding connection**	-ON-	-ON-
	This configuration will permit a rating increase of 1.7 in the starter power but does not permit braking or deceleration. • On: motor with delta winding connection. The nominal motor current In is the same as that specified on the motor rating plate and the current displayed corresponds to the line current of the line supply. The nominal current value In (Set menu) is the same as that specified on the motor rating plate for the delta connection. The starter carries out the conversion itself to control the current in the windings. ! With this function : - Cascading is not possible - Preheating is not possible		
CLP	**Torque control** (type of control**)**	-On-OFF - ILt -	-ON-
	• OFF: function inactive • On: function active In the On position, starting and deceleration follow the torque ramp.In the OFF position, starting and deceleration are controlled by voltage variation.In the ILt position, the starter use a special law (mix of On and OFF law) permit to start a motor in the delta wiring with a low current limitation.Voltage control is recommended for applications which use motors in parallel on one starter or a motor whose power is very low in relation to the starter rating (use of an undersized motor to test the starter) (CLP = OFF).		

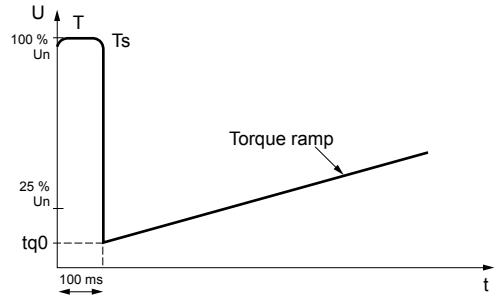
Advanced settings menu (drC)

Following parameters are accessible if CLP is set to ILt.

Code	Description	Setting range	Factory setting
tSC	**Threshold for unbalanced synchronization counter**	0 to 10 or OFF	8
	Each 50ms, the counters of synchronization (current zero crossing) of each phase are compared. If an unbalance occurs, the unbalanced synchronization counter is incremented. On a time window of 500ms, the counter can reach 10. This value is compared to tSC in order to activate the PHF warning.		
dCr	Difference between the current reference and the measured current for the transition Voltage to Current control at the end of starting.	0% to 100%	25%
tES	**Time before the end of starting**	0 to 10,000 ms	500 ms
	The parameters dCr and tES allows modifying the condition to finish the starting phase. The Voltage control is maintained up to the time when the condition REFERENCE - MEASUREMENT > dCr, with a minimum time of tES.		



The Advanced setting parameters can only be modified when the motor is stopped.

Code	Description	Setting range	Factory setting
bSt	Voltage boost level	25 to 48% 50 to 100%OFF	-OFF-
	An adjustable voltage can be applied when a run command is present for 100 ms. Once this time has elapsed, the starter follows a standard acceleration ramp starting at the initial torque value set (tq0).This function can be used to avoid any "starting" torque (phenomenon caused by friction onstopping or by mechanical play). **On S358 version, the starting is not guarantee with a boost value below 49%, depending to the load.** • 25 to 48: setting as a % of the nominal motor voltage • 50 to 100: setting as a % of the nominal motor voltage • OFF: Function inactive  **! In the case of overrating the starter (In motor > In ATS48), a value of the parameter bSt too high can cause the starter to trip in OCF.**		