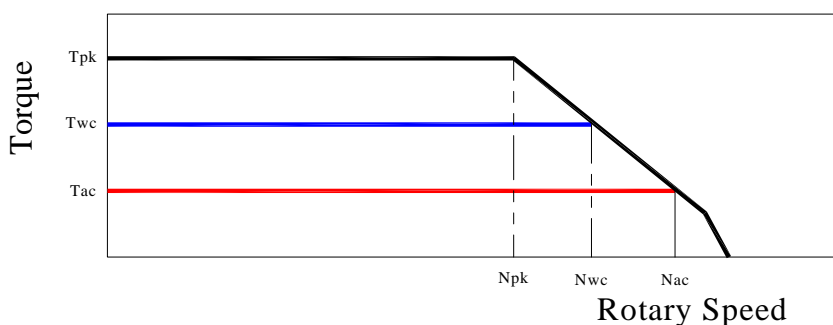


TORQUE MOTOR - MK-CI 450-070 WA

Motor specification	Symbol	Unit	
Number of pole	P		88
Peak Torque	T _{pk}	Nm	1707
Continuos Torque (Water Cooling Dt100)	T _{wc}	Nm	938
Continuos Torque (Air Cooling Dt100)	T _{ac}	Nm	403
Stall Torque (Water Cooling)	T _{wsc}	Nm	739
Stall Torque (Air Cooling)	T _{sac}	Nm	308
Ripple Torque (Cogging Torque)	T _r	Nm	10
Power Loss at T _{wc}	P _{wc}	Kw	4,6
Power Loss at T _{ac}	P _{ac}	Kw	0,85
Termal Resistance Water Cooling	R _{thWc}	Kw	0,02
Termal Resistance Air Cooling	R _{thAc}	Kw	0,13
Torque Constant	K _t	Nm/a	36,5
Back EMF Constant	K _e	V/1000 Rpm	2248
Maximum Speed at I _{pk} at 600 Vdc	N _{pk}	rpm	55
Maximum Speed at I _{wc} at 600 Vdc	N _{wc}	rpm	120
Maximum Speed at I _{ac} at 600 Vdc	N _{ac}	rpm	170
Winding Resistance (Phase to Phase)	R ₂₀	Ω	3
Winding Inductance (Phase to Phase)	L	mh	18,91
Peak Current	I _{pk}	Arms	68
Continuos Current (Water Cooling Dt100)	I _{wc}	Arms	26,8
Continuos Current (Air Cooling Dt100)	I _{ac}	Arms	11,4
Stall Current at 0 Speed (Water Cooling)	I _{wsc}	Arms	20,5
Stall Current at 0 Speed (Air Cooling)	I _{sac}	Arms	8,7
Maximum Winding Temperature		°C	130
Height of Rotor		mm	70
Height of Stator		mm	130
Stator jacket outer diameter		mm	485

Torque diagram



TORQUE MOTOR - MK-CI 450-070 WB

Motor specification	Symbol	Unit	
Number of pole	P		88
Peak Torque	T _{pk}	Nm	1712
Continuos Torque (Water Cooling Dt100)	T _{wc}	Nm	950
Continuos Torque (Air Cooling Dt100)	T _{ac}	Nm	404
Stall Torque (Water Cooling)	T _{wsc}	Nm	749
Stall Torque (Air Cooling)	T _{sac}	Nm	309
Ripple Torque (Cogging Torque)	Tr	Nm	10
Power Loss at T _{wc}	P _{wc}	Kw	4,6
Power Loss at T _{ac}	P _{ac}	Kw	0,85
Termal Resistance Water Cooling	R _{thWc}	Kw	0,02
Termal Resistance Air Cooling	R _{thAc}	Kw	0,13
Torque Constant	K _t	Nm/a	18,76
Back EMF Constant	K _e	V/1000 Rpm	1156
Maximum Speed at I _{pk} at 600 Vdc	N _{pk}	rpm	120
Maximum Speed at I _{wc} at 600 Vdc	N _{wc}	rpm	260
Maximum Speed at I _{ac} at 600 Vdc	N _{ac}	rpm	340
Winding Resistance (Phase to Phase)	R ₂₀	Ω	0,8
Winding Inductance (Phase to Phase)	L	mh	5
Peak Current	I _{pk}	Arms	131
Continuos Current (Water Cooling Dt100)	I _{wc}	Arms	53
Continuos Current (Air Cooling Dt100)	I _{ac}	Arms	22,3
Stall Current at 0 Speed (Water Cooling)	I _{wsc}	Arms	40,5
Stall Current at 0 Speed (Air Cooling)	I _{sac}	Arms	17,1
Maximum Winding Temperature		°C	130
Height of Rotor		mm	70
Height of Stator		mm	130
Stator jacket outer diameter		mm	485

Torque diagram

