TORQUE SERVOMOTORS

SERIES

SKAddr 430 30/60

TORQUE [Nm]

210/340

		SYMBOLS	UNITS	WINDING TYPE 52	53	54	55
MOTOR SPEED	Vn drive 125 V (ac) 3phase		[rpm]	100	50	-	-
	Vn drive 230 V (ac) 3phase		[rpm]	180	90	50	-
	Vn drive 400 V (ac) 3phase		[rpm]	300	150	90	50
MOTOR RATINGS	**COMMON RATINGS**						
	Voltage constant ± 5%	Ke	[Vrms/krpm]	950	1900	3150	5700
	Poles number	P		56			
	Temperature range	Tr	[°C]	0 ÷ 40°			
	SKAddr 430 30						
	Stall torque	Cn0	[Nm]	210			
	Peak torque	Cmax	[Nm]	458	458	458	436
	Torque constant ± 5%	Kt	[Nm/Arms]	11.3	22.7	37.9	68.4
	Stall current	In0	[Arms]	13.3	6.68	4.01	2.23
	Peak current	I cmax	[Arms]	40.4	20.2	12.1	6.37
	Phase/phase res. ± 5% a 20°C	Rff	[Ohm]	1.11	4.47	12.5	40.3
	Phase/phase inductance	Lff	[mH]	16.0	66.0	183	593
	Electrical time constant	Te	[msec]	14.4	14.8	14.6	14.7
	Power loss	Pd	[W]	450			
	Thermal resistance	Rth	[°C/W]	0.23			
	Motor constance	Km	[Nm/√W]	9.90			
	Insulation class			F			
	SKAddr 430 60						
	Stall torque	Cn0	[Nm]	340			
	Peak torque	Cmax	[Nm]	868	868	868	868
	Torque constant ± 5%	Kt	[Nm/Arms]	11.3	22.7	37.9	68.4
	Stall current	In0	[Arms]	21.8	10.9	6.58	3.64
	Peak current	I cmax	[Arms]	76.8	38.2	22.9	12.7
	Phase/phase res. ± 5% a 20°C	Rff	[Ohm]	0.47	2.65	5.22	16.9
	Phase/phase inductance	Lff	[mH]	9.2	32	102	330
	Electrical time constant	Te	[msec]	12	12	19.5	19.5
	Power loss	Pd	[W]	490			
	Thermal resistance	Rth	[°C/W]	0.21			
	Motor constance	Km	[Nm/√W]	15.4			
	Insulation class			F			
THERMAL PROTECTION	Type of thermal cut-off			N C : normally closed			
	Rated voltage	Vn	[Vac]	250			
	Rated current	In	[A]	2.5			
	Operative temperature	Tn	[°C]	130 °C ± 5%			
	Resetting temperature	Tr	[°C]	100 °C ± 15°C			
	Operative time		[ms]	1			
	Insulation class			F			

TORQUE SERVOMOTORS

SERIES

SKAddr 430 90/120

TORQUE [Nm]

450/560

		SYMBOLS	UNITS	WINDING TYPE		
				53	54	55
MOTOR SPEED	Vn drive 125 V (ac) 3phase		[rpm]	50	-	-
	Vn drive 230 V (ac) 3phase		[rpm]	90	50	-
	Vn drive 400 V (ac) 3phase		[rpm]	150	90	50
MOTOR RATINGS	**COMMON RATINGS**					
	Voltage constant ± 5%	Ke	[Vrms/krpm]	1900	3150	5700
	Poles number	P		56		
	Temperature range	Tr	[°C]	0 ÷ 40°		
	SKAddr 430 90					
	Stall torque	Cn0	[Nm]	450		
	Peak torque	Cmax	[Nm]	1254	1254	1254
	Torque constant ± 5%	Kt	[Nm/Arms]	22.7	37.9	68.4
	Stall current	In0	[Arms]	14.3	8.63	4.78
	Peak current	I cmax	[Arms]	55.2	33.1	18.3
	Phase/phase res. ± 5% a 20°C	Rff	[Ohm]	1.19	3.31	10.77
	Phase/phase inductance	Lff	[mH]	26.2	73.0	237
	Electrical time constant	Te	[msec]	22.0	22.1	22.0
	Power loss	Pd	[W]	550		
	Thermal resistance	Rth	[°C/W]	0.19		
	Motor constance	Km	[Nm/√W]	19.2		
	Insulation class			F		
	SKAddr 430 120					
	Stall torque	Cn0	[Nm]	560		
	Peak torque	Cmax	[Nm]		1649	1649
	Torque constant ± 5%	Kt	[Nm/Arms]		37.9	68.4
	Stall current	In0	[Arms]		10.7	5.94
	Peak current	I cmax	[Arms]		43.5	24.1
	Phase/phase res. ± 5% a 20°C	Rff	[Ohm]		2.42	7.80
	Phase/phase inductance	Lff	[mH]		57	183
	Electrical time constant	Te	[msec]		23.6	23.5
	Power loss	Pd	[W]	620		
	Thermal resistance	Rth	[°C/W]	0.17		
	Motor constance	Km	[Nm/√W]	22.5		
	Insulation class			F		
THERMAL PROTECTION	Type of thermal cut-off			N C : normally closed		
	Rated voltage	Vn	[Vac]	250		
	Rated current	In	[A]	2.5		
	Operative temperature	Tn	[°C]	130 °C ± 5%		
	Resetting temperature	Tr	[°C]	100 °C ± 15°C		
	Operative time		[ms]	1		
	Insulation class			F		

TORQUE SERVOMOTORS

SERIES

SKAddr 430 150/180

TORQUE [Nm]

660/760

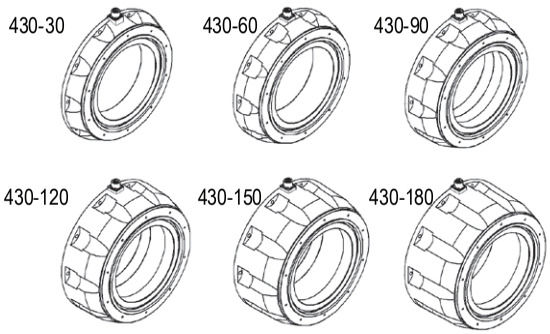
		SYMBOLS	UNITS	WINDING TYPE 54	55
MOTOR SPEED	Vn drive 125 V (ac) 3phase		[rpm]	-	-
	Vn drive 230 V (ac) 3phase		[rpm]	50	-
	Vn drive 400 V (ac) 3phase		[rpm]	90	50
MOTOR RATINGS	**COMMON RATINGS**				
	Voltage constant ± 5%	Ke	[Vrms/krpm]	3150	5700
	Poles number	P		56	
	Temperature range	Tr	[°C]	0 ÷ 40°	
	SKAddr 430 150				
	Stall torque	Cn0	[Nm]	660	
	Peak torque	Cmax	[Nm]	2025	2025
	Torque constant ± 5%	Kt	[Nm/Arms]	37.9	68.4
	Stall current	In0	[Arms]	12.7	7.00
	Peak current	I cmax	[Arms]	53.4	29.6
	Phase/phase res. ± 5% a 20°C	Rff	[Ohm]	2.03	6.21
	Phase/phase inductance	Lff	[mH]	47.3	152
	Electrical time constant	Te	[msec]	23.3	24.5
	Power loss	Pd	[W]	680	
	Thermal resistance	Rth	[°C/W]	0.15	
	Motor constance	Km	[Nm/√W]	25.3	
	Insulation class			F	
	SKAddr 430 180				
	Stall torque	Cn0	[Nm]	760	
	Peak torque	Cmax	[Nm]	2400	
	Torque constant ± 5%	Kt	[Nm/Arms]	68.4	
	Stall current	In0	[Arms]	8.06	
	Peak current	I cmax	[Arms]	35.1	
	Phase/phase res. ± 5% a 20°C	Rff	[Ohm]	5.14	
	Phase/phase inductance	Lff	[mH]	129	
	Electrical time constant	Te	[msec]	25.1	
	Power loss	Pd	[W]	745	
	Thermal resistance	Rth	[°C/W]	0.14	
	Motor constance	Km	[Nm/√W]	27.8	
	Insulation class			F	
THERMAL PROTECTION	Type of thermal cut-off			N C : normally closed	
	Rated voltage	Vn	[Vac]	250	
	Rated current	In	[A]	2.5	
	Operative temperature	Tn	[°C]	130 °C ± 5%	
	Resetting temperature	Tr	[°C]	100 °C ± 15°C	
	Operative time		[ms]	1	
	Insulation class			F	

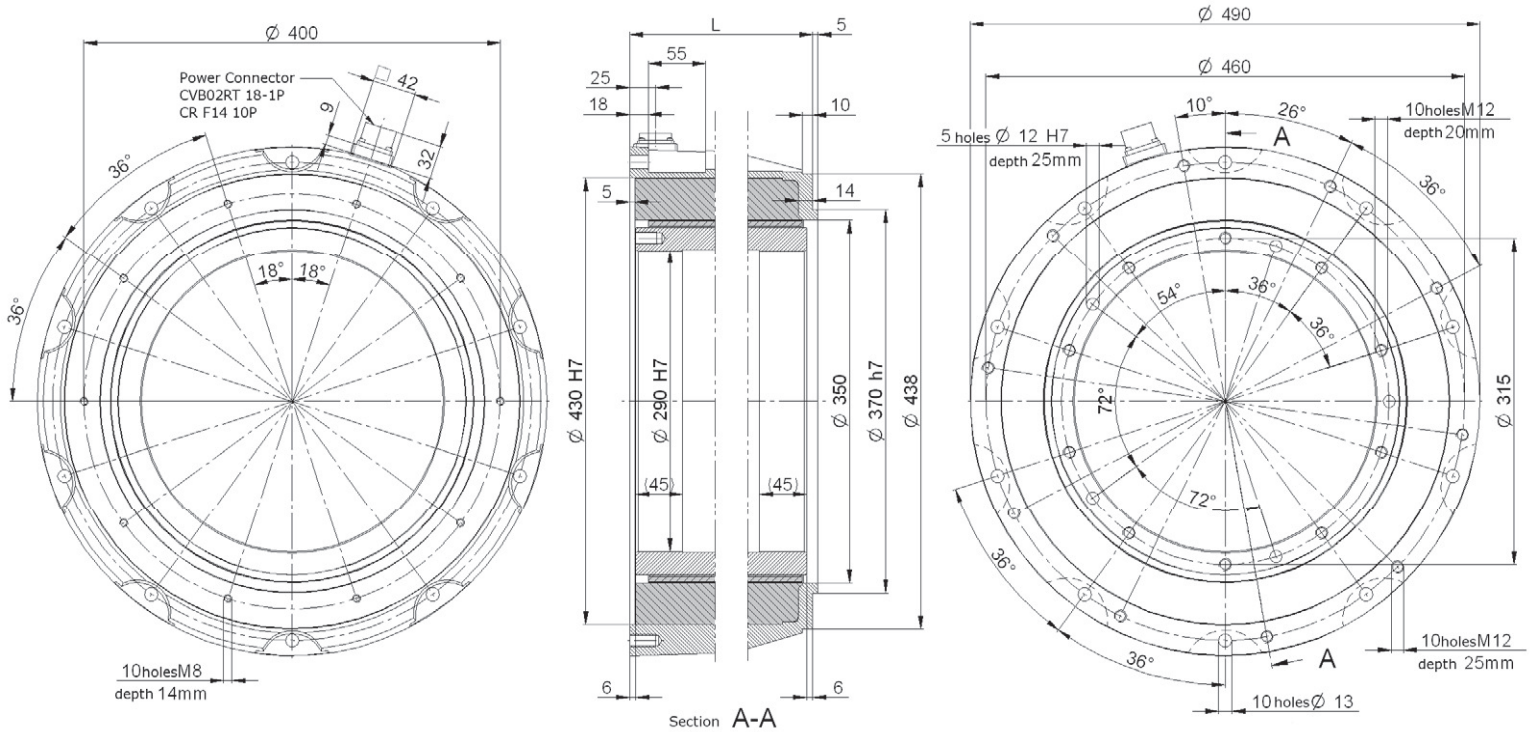
Frameless series

Data Sheet n°:DDR-200901-GB

SKAddr 430 *Power Elements*

MECHANICAL DATA			430-30	430-60	430-90	430-120	430-150	430-180
Motor length	L	[mm]	85	115	145	175	205	235
Rotor weight	Wr	[Kg]	15.30	22.00	28.50	35.20	41.70	48.3
Stator weight	Ws	[Kg]	22.8	36.5	50.00	64.00	77.50	90.50
Rotor inertia	Jr	[Kg m²]	0.3894	0.5642	0.7323	0.9025	1.0728	1.2430
Max theoretical acceleration	αmax	[rad s²]	1176	1538	1712	1827	1887	1931
Wiring diagram	A = Phase U B = Phase V C = Phase W H = Ground F = Thermal Protection G = F.							





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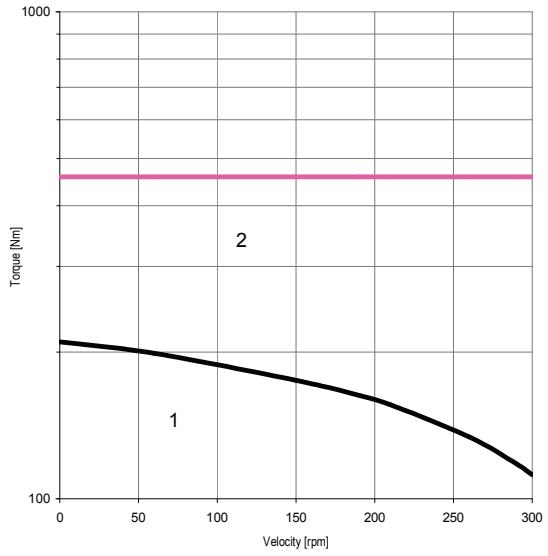
TORQUE MOTORS

SERIES

SKAddr 430

Performance Curves

SKA ddr 430.30



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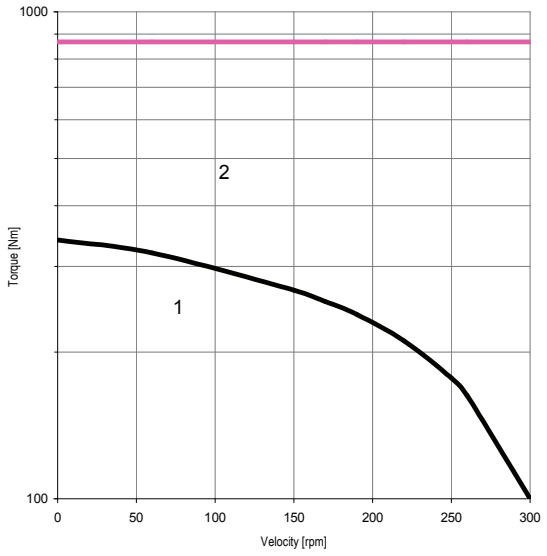

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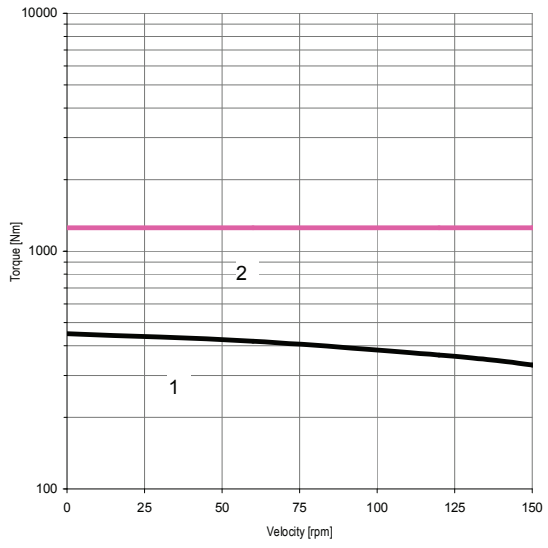

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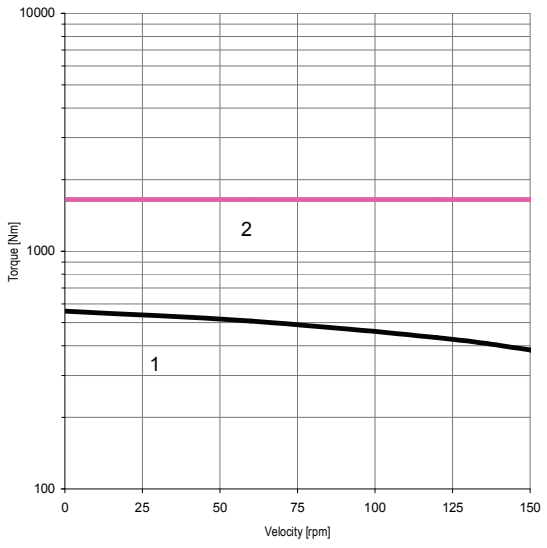


1 – Continuous Duty Area 2 – Intermittent Duty Area	

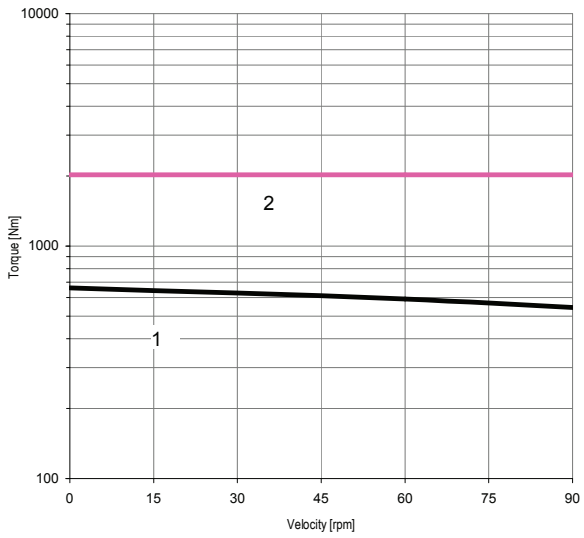
TORQUE MOTORS

SERIES

SKAddr 430

Performance Curves

SKA ddr 430.150



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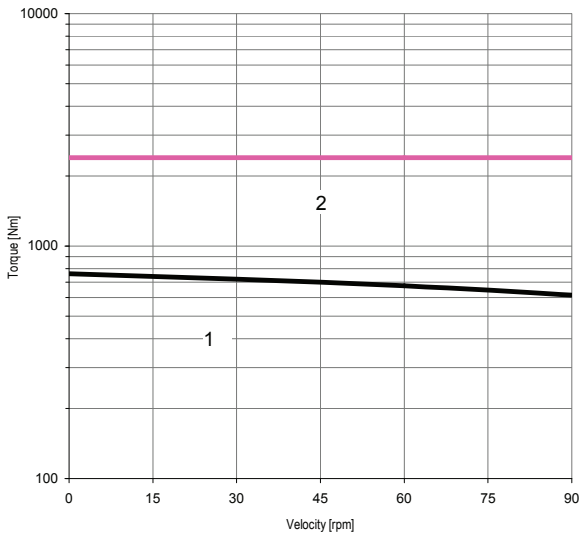

1 – Continuous Duty Area 2 – Intermittent Duty Area