

2.13.7 8LSA55...-3 / 8LSA57...-3 - Standard motors

8LSA55...-3	Nominal speed n _N [rpm]	Resolver	EnDat (inductive)	Holding brake	Connection direction	Shaft end
8LSA55.EA030D000-3	3000	---	2.1 single-turn	---	Angled (swivel connector)	Smooth shaft
8LSA55.EA030D200-3		---		Yes		
8LSA55.EB030D000-3		---	2.1 multi-turn	---		
8LSA55.EB030D200-3		---		Yes		
8LSA55.R2030D000-3		R2	---	---		
8LSA55.R2030D200-3			---	Yes		
8LSA55.R2030D100-3			---	---		
8LSA55.R2030D300-3			---	Yes		
8LSA55.DA030S000-3		---	2.2 single-turn	---	Single-cable solution (hybrid) Angled, swivel connector	Smooth shaft
8LSA55.DA030S200-3		---		Yes		
8LSA55.DB030S000-3		---	2.2 multi-turn	---		
8LSA55.DB030S200-3		---		Yes		
8LSA55.DA030S100-3		---	2.2 single-turn	---		Keyed shaft
8LSA55.DA030S300-3		---		Yes		
8LSA55.DB030S100-3		---	2.2 multi-turn	---		
8LSA55.DB030S300-3		---		Yes		

8LSA57...-3	Nominal speed n _N [rpm]	Resolver	EnDat (inductive)	Holding brake	Connection direction	Shaft end
8LSA57.R2030D000-3	3000	R2	---	---	Angled (swivel connector)	Smooth shaft
8LSA57.R2030D200-3			---	Yes		
8LSA57.R2030D100-3			---	---		
8LSA57.R2030D300-3			---	Yes		
8LSA57.DA030S000-3		---	2.2 single-turn	---	Single-cable solution (hybrid) Angled, swivel connector	Smooth shaft
8LSA57.DA030S200-3		---		Yes		
8LSA57.DB030S000-3		---	2.2 multi-turn	---		
8LSA57.DB030S200-3		---		Yes		
8LSA57.DA030S100-3		---	2.2 single-turn	---		Keyed shaft
8LSA57.DA030S300-3		---		Yes		
8LSA57.DB030S100-3		---	2.2 multi-turn	---		
8LSA57.DB030S300-3		---		Yes		

8LSA55...-3 / 8LSA57...-3 - Technical data

Model number	8LSA55.ee030ffgg-3	8LSA57.ee030ffgg-3
Motor		
Nominal speed n _N [rpm]	3000	
Number of pole pairs	4	
Nominal torque M _N [Nm]	11.6	17.5
Nominal power P _N [W]	3644	5498
Nominal current I _N [A]	7.1	10.7
Stall torque M ₀ [Nm]	12.5	20
Stall current I ₀ [A]	7.7	12.3
Maximum torque M _{max} [Nm]	41.4	69
Maximum current I _{max} [A]	33	52.6
Maximum speed n _{max} [rpm]	9000	
Torque constant K _T [Nm/A]	1.63	
Voltage constant K _E [V/1000 rpm]	98.44	
Stator resistance R _{2ph} [Ω]	1.127	0.62
Stator inductance L _{2ph} [mH]	12.5	7.21
Electrical time constant t _{el} [ms]	11.1	11.6
Thermal time constant t _{therm} [min]	40	46
Moment of inertia J [kgcm ²]	8.19	13.13
Weight without brake m [kg]	10.4	14.5
Holding brake		
Holding torque of brake M _{Br} [Nm]	15	
Mass of brake [kg]	1.5	1.3
Moment of inertia of brake J _{Br} [kgcm ²]	1.66	
Recommendations		
ACOPOS 8Vxxx.xx...	1090	1180
ACOPOSmulti 8BVlxxx...	0110	
ACOPOS P3 8Elxxx...	8X8X	017X
Cross section for B&R motor cables [mm ²]	0.75	1.5
Connector size	1.0	

Additional technical data

Speed-torque characteristic curve, permissible shaft load and dimensions

[see "8LSA5...-3 - Technical data" on page 95](#)