



New Bonfiglioli BSR

Synchronous and reluctance motors

High efficiency and high power density: a green and cost-effective investment

The BSR range of synchronous and reluctance motors can reach the **IE4 efficiency class in the same size** as standard IE2 class induction motors. Alternatively, with the same size and efficiency, it can produce twice the power with respect to a corresponding induction motor.

To reach these objectives, Bonfiglioli has developed two packages: a "High Efficiency" package with IE4 efficiency class, and a "High Power Density" package. For both solutions, the optimal motor control is guarantees by the Active Cube series drives, now equipped with sensorless algorithms dedicated to the new technology, and capable of enhancing their performance.





BSR + A/C/F/S + Active Cube package

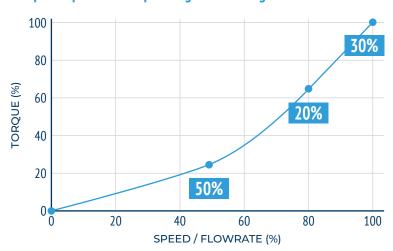
Reliability and high efficiency





			Normative refer	ence 61800-9-2	
Opera	ting point		PDS relat	ive losses	Losses reduction
Speed [%]	Torque [%]	IES1 [%]	IES2 [%]	BSR 90LE + ACU410 [%]	Reduction vs IES1 [%]
100	100	39.1	31.2	19.5	-50%
100	50	23.7	19.0	12.7	-47%
50	100	30.5	24.4	18.3	-40%
50	50	20.0	16.0	10.5	-47%
50	25	16.9	13.5	7.3	-57%
0	100	27.9	22.3	17.3	-38%
0	50	17.1	13.7	9.4	-45%
0	25	14.5	11.6	6.4	-56%

Pump load profile and operating time sharing



€/Y	kWh / Y	kg CO2 / Y
3492	17290	15267
oduction from	solid fuels.	



HEADQUARTERS

Bonfiglioli Riduttori S.p.A. Via Giovanni XXIII, 7/A 40012 Lippo di Calderara di Reno Bologna (Italy) tel: +39 051 647 3111 fax: +39 051 647 3126 bonfiglioli@bonfiglioli.com www.bonfiglioli.com





