

## PRODUCED BY SANDEN





# COMPRESSOR EXPERTISE MEETS SELLING SKILLS

The new SANDEN electric compressors. Exclusively from BEHR HELLA SERVICE.

The thermal management expert, Behr Hella Service, has further expanded its extensive range of compressors: The range now also contains the latest generation of electrically driven, vehicle-specific units from the compressor specialist SANDEN – exclusively sold on the Independent European Aftermarket by Behr Hella Service.

### BEHR HELLA SERVICE & SANDEN A POWERFUL COMBINATION

- → Behr Hella Service, the expert for vehicle air-conditioning and engine-cooling systems, has been combining excellent service skills with a broad product range for over 10 years
- → SANDEN, the compressor specialist, equips almost 25% of the air-conditioned vehicles worldwide with compressors. In 1990 SANDEN had already developed the first electric compressor for purely electric vehicles – and today still possesses various electric compressor patents.

### $2^{\mbox{\tiny ND}}$ GENERATION SANDEN ELECTRIC COMPRESSORS THE BENEFITS

- → Top efficiency across a broad operating range
- → No start-up restrictions, quick acceleration
- → An extremely long service life, highly resistant under exceptional operating conditions, such as liquid impact, low lubrication and engine vibrations
- → Lower pulsation due to integrated mufflers
- → Reduced vibration thanks to internal balancing
- → Low oil circulation throughout the entire operating range

#### $1^{\text{st}}$ and $2^{\text{nd}}$ generation electric compressors in comparison







TECHNICAL DETAILS				
Compressor Type	Scroll			
Displacement	33 ccm/rev.			
Weight	6.2 kg (without oil)			
Ambient temperature during operation	−25 to +125 °C			
Ambient temperature during storage	−40 to +140 °C			
Refrigerant	R134a or HF01234yf			
Oil Type	SP-A2 (PAG-Oil)			
Compressor speed	800 – 8500 revs/min			
Oil separator	Integrated			
High Pressure relief valve settings	Opening pressure: $3.9 \pm 0.3  \text{MPa}$ Closing pressure: min 3.1 MPa			
Leakage rate according to EU Regulation 2006/40 EG	<5 g/year			

PARAMETER	MIN	TYP	MAX	UNIT	REMARK	
HV Range for operation guarantee (DC)	210	350	432	V		
Max. Permissible input High Voltage (DC)	-	-	500	V	could differ for each application	
Current consumption at High Voltage input (DC)	_	_	25	А		
Phase current consumption of Motor	-	16	-	А	@ 6.2Nm @ 6000 revs/min.	
LV Range for operation guarantee (communication only) (DC)	9	14	16	V	_	
Current consumption at Low Voltage input (DC)	-	200	500	mA	TYP at 14V DC	

ARTICLE NUMBER	SANDEN	PREMIUM * L I N E	REMARK
8FK 351 342-021	SHS33-4155		Mercedes Benz B-Class
8FK 351 342-031	SHS33-4170		Volvo FH16 750EEV (also for stationary air-conditioning systems)
8FK 351 342-041	SHS33-4166		Volvo V60 HYBRID
8FK 351 342-051	SHS33-4182		Mercedes Benz S400 Hybrid
8FX 351 213-141	SP-A2		SANDEN compressor oil

 $<sup>^{\</sup>star} \;\; \text{Additional information may be found on: www.behrhellaservice.com/premiumline}$ 



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