ELECTRIC COMPRESSORS 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.

2ND 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

1st and 2nd 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 HFO1234yf
Oil Type: SP-A2 (PAG-Oil)
Compressor speed: 800 – 8500 revs/min
Oil separator: Integrated

High Pressure relief valve settings:
Opening pressure: 3.9 ± 0.3 MPa
Closing pressure: min 3.1 MPa
Leakage rate according to EU Regulation 2006/40 EG: < 5 g/year

PARAMETER

<table>
<thead>
<tr>
<th>PARAMETER</th>
<th>MIN</th>
<th>TYP</th>
<th>MAX</th>
<th>UNIT</th>
<th>REMARK</th>
</tr>
</thead>
<tbody>
<tr>
<td>HV Range for operation guarantee (DC)</td>
<td>210</td>
<td>350</td>
<td>432</td>
<td>V</td>
<td>could differ for each application</td>
</tr>
<tr>
<td>Max. Permissible input High Voltage (DC)</td>
<td>–</td>
<td>–</td>
<td>500</td>
<td>V</td>
<td></td>
</tr>
<tr>
<td>Current consumption at High Voltage input (DC)</td>
<td>–</td>
<td>–</td>
<td>25</td>
<td>A</td>
<td></td>
</tr>
<tr>
<td>Phase current consumption of Motor</td>
<td>–</td>
<td>16</td>
<td>–</td>
<td>A</td>
<td>@ 6.2Nm @ 6000 revs/min.</td>
</tr>
<tr>
<td>LV Range for operation guarantee (communication only) (DC)</td>
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<td>14</td>
<td>16</td>
<td>V</td>
<td></td>
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<tr>
<td>Current consumption at Low Voltage input (DC)</td>
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<td>200</td>
<td>500</td>
<td>mA</td>
<td>TYP at 14V DC</td>
</tr>
</tbody>
</table>

ARTICLE NUMBER | SANDEN | PREMIUM LINE | 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  

* Additional information may be found on: www.behrhellaservice.com/premiumline